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Docket No. AEOMICA_X_1

Applicant Penn et al.

Serial No. 09/864,761 Filed May 23, 2001

Receipt is hereby acknowledged of the
Transmittal Letter in Duplicate; Information Disclosure
Statement; Form PTO-1449 in Duplicate; Three Hundred and
Fifty Three (353) References

Dated November 30, 2001

Filed in connection with the above case.

COMMISSIONER OF PATENTS
AND TRADEMARKS

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Rev. 04/01

Docket No. AEOMICA X 1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Penn et al.

Application No.: 09/864,761 Confirmation No.: 6802

Filed : May 23, 2001

For : HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC
ACID PROBES USEFUL FOR GENE EXPRESSION
ANALYSIS

Group Art Unit : 1645

Hon. Commissioner
for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER FOR
INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is an Information Disclosure
Statement in the above-identified application. This
Statement is submitted:

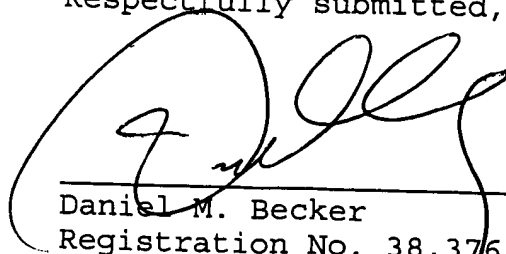
- ☐ within three months of the application filing
date;
- ☒ more than three months from the application
filing date but before the mailing date of
the first Office Action on the merits.

In accordance with 37 C.F.R. § 1.97, submission of
this Statement requires no fee. However, if for any reason
a fee is due, the Director is hereby authorized to charge
payment of any fees required in connection with this
Information Disclosure Statement to Deposit Account
No. 06-1075. A duplicate copy of this letter is transmitted
herewith.

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Respectfully submitted,

A large, stylized handwritten signature in black ink, appearing to read 'D. M. Becker', is written over a horizontal line.

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Attorney for Applicants

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PATENTS
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98,
applicants hereby make the following documents of record in
the above identified application: *

U.S. Patents

6,204,250	03/20/01	Bot et al.
6,124,128	09/26/00	Tsien et al.
6,110,898	08/29/00	Malone et al.
6,096,865	08/01/00	Michaels
6,090,919	07/18/00	Cormack et al.
6,066,476	05/23/00	Tsien et al.
6,057,107	05/02/00	Fulton
6,054,321	04/25/00	Tsien et al.
6,051,831	04/18/00	Köster
6,046,800	04/04/00	Ohtomo et al.
6,042,549	03/28/00	Amano et al.

* Applicants reserve the right to challenge the status of any
of the cited documents as prior art.

6,027,881	02/22/00	Pavlakakis et al.
6,025,201	02/15/00	Zelmanovic et al.
6,017,897	01/25/00	Li et al.
6,016,191	01/18/00	Ramos et al.
6,004,752	12/21/99	Loewy et al.
6,004,744	12/21/99	Goelet et al.
6,001,233	12/14/99	Levy
5,990,689	11/23/99	Poncon
5,985,847	11/16/99	Carson et al.
5,984,175	11/16/99	Popp
5,968,750	10/19/99	Zolotukhin et al.
5,960,411	09/28/99	Hartman et al.
5,958,891	09/28/99	Hsu et al.
5,945,339	08/31/99	Holloman et al.
5,930,143	07/27/99	Savazzi
5,925,517	07/20/99	Tyagi et al.
5,889,351	03/30/99	Okumura et al.
5,888,983	03/30/99	Kmiec et al.
5,880,104	03/09/99	Li et al.
5,874,304	02/23/99	Zolotukhin et al.
5,871,984	02/16/99	Kmiec
5,854,033	12/29/98	Lizardi
5,846,726	12/08/98	Nadeau et al.
5,843,913	12/01/98	Li et al.
5,830,877	11/03/98	Carson et al.
5,824,269	10/20/98	Kosaka et al.
5,804,566	09/08/98	Carson et al.
5,804,387	09/08/98	Cormack et al.
5,795,972	08/18/98	Kmiec
5,783,674	07/21/98	Geysen
5,780,296	07/14/98	Holloman et al.
5,777,079	07/07/98	Tsien et al.
5,760,012	06/02/98	Kmiec et al.
5,756,325	05/26/98	Kmiec
5,744,305	04/28/98	Fodor et al.
5,741,668	04/21/98	Ward et al.
5,736,330	04/07/98	Fulton
5,731,181	03/24/98	Kmiec
5,723,591	03/03/98	Livak et al.
5,719,262	02/17/98	Buchardt et al.
5,714,331	02/03/98	Buchardt et al.
5,714,320	02/03/98	Kool
5,679,647	10/21/97	Carson et al.
5,677,439	10/14/97	Weis et al.
5,677,437	10/14/97	Teng et al.
5,663,312	09/02/97	Chaturvedula
5,633,360	05/27/97	Bischofberger et al.
5,625,050	04/29/97	Beaton et al.

5,625,048	04/29/97	Tsien et al.
5,623,070	04/22/97	Cook et al.
5,618,704	04/08/97	Sanghvi et al.
5,610,289	03/11/97	Cook et al.
5,608,046	03/04/97	Cook et al.
5,602,240	02/11/97	De Mesmaeker et al.
5,596,086	01/21/97	Matteucci et al.
5,595,915	01/21/97	Geysen
5,589,466	12/31/96	Felgner et al.
5,587,361	12/24/96	Cook et al.
5,571,799	11/05/96	Tkachuk et al.
5,570,694	11/05/96	Rometsch
5,563,253	10/08/96	Agrawal et al.
5,561,225	10/01/96	Maddry et al.
5,550,111	08/27/96	Suhadolnik et al.
5,541,307	07/30/96	Cook et al.
5,541,306	07/30/96	Agrawal et al.
5,539,084	07/23/96	Geysen
5,539,082	07/23/96	Nielsen et al.
5,538,848	07/23/96	Livak et al.
5,536,821	07/16/96	Agrawal et al.
5,519,126	05/21/96	Hecht
5,489,677	02/06/96	Sanghvi et al.
5,476,925	12/19/95	Letsinger et al.
5,470,967	11/28/95	Huie et al.
5,466,677	11/14/95	Baxter et al.
5,455,233	10/3/95	Spielvogel et al.
5,453,496	09/26/95	Caruthers et al.
5,445,934	08/29/95	Fodor et al.
5,434,257	07/18/95	Matteucci et al.
5,405,939	04/11/95	Suhadolnik et al.
5,405,938	04/11/95	Summerton et al.
5,399,676	03/21/95	Froehler
5,321,131	06/14/94	Agrawal et al.
5,286,717	02/15/94	Cohen et al.
5,279,044	01/18/94	Bremer
5,278,302	01/11/94	Caruthers et al.
5,276,019	01/04/94	Cohen et al.
5,264,564	11/23/93	Matteucci
5,264,562	11/23/93	Matteucci
5,264,423	11/23/93	Cohen, et al.
5,235,033	08/10/93	Summerton et al.
5,216,141	06/01/93	Benner
5,214,134	05/25/93	Weiss et al.
5,188,897	02/23/93	Suhadolnik et al.
5,186,042	02/16/93	Miyazaki
5,185,444	02/09/93	Summerton et al.
5,177,196	01/05/93	Meyer, Jr. et al.

5,166,315	11/24/92	Summerton et al.
5,034,506	07/23/91	Summerton et al.
5,023,243	06/11/91	Tullis
4,708,871	11/24/87	Geysen
4,476,301	10/09/84	Imbach et al.
4,469,863	09/04/84	Ts'o et al.
4,246,774	01/27/81	Flesselles et al.
3,687,808	08/29/72	Merigan et al.

Foreign Patent Documents

WO 00/15779	03/23/00	PCT
WO 99/58720	11/18/99	PCT
WO 98/59362	12/30/98	PCT
WO 98/59361	12/30/98	PCT
WO 98/59360	12/30/98	PCT
WO 98/12559	03/26/98	PCT
WO 97/43316	11/20/97	PCT
WO 97/34631	09/25/97	PCT
WO 97/19193	05/29/97	PCT
WO 96/32478	10/17/96	PCT
WO 96/18412	06/20/96	PCT

Other Patent Documents

Adams et al., "Initial Assessment of Human Gene Diversity and Expression of Patterns Based Upon 83 Million Nucleotides of cDNA Sequence," *Nature* 377 (suppl.): pp. 3-174 (September 1995).

Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," *Science* 252: pp. 1651-1656 (21 June 1991).

Ailor et al., "Overexpression of a Cystolic Chaperone in Insect Cells," *Biotechnology & Bioengineering*, Vol. 58 No. 2 & 3: pp. 196-203 (April 20/May 5, 1998).

Alers et al., "Universal Linkage System: An Improved Method for Labeling Archival DNA for Comparative Genomic Hybridization," *Genes, Chromosomes & Cancer*, Vol. 25: pp. 301-305 (1999).

Alizadeh et al., "Distinct Types of Diffuse Large B-Cell Lymphoma Identified by Gene Expression Profiling," *Nature* vol. 403: pp. 503-11 (February 2000).

- Allayee et al., "Families with Familial Combined Hyperlipidemia and Families Enriched for Coronary Artery Disease Share Genetic Determinants for the Atherogenic Lipoprotein Phenotype," *Am. J. Hum. Genet.* 63: pp. 577-585 (1998).
- Allen et al., "Finding Prospective Partners in the Library: the Two-Hybrid System and Phage Display Find a Match," *Trends in Biochemical Science* vol. 20: pp. 511-516 (December 1995).
- Allison, Jr, J.R. M.D., "Sarcoidosis: I. Familial Occurrence, II. Pseudotumor Cerebri and Unusual Skin Lesions*," *Southern Medical Journal* vol. 57 no. 1: pp. 27-32 (January 1964).
- Alon et al., "Broad Patterns of Gene Expression Revealed by Clustering Analysis of Tumor and Normal Colon Tissues Probed by Oligonucleotide Arrays," *Proc. Natl. Acad. Sci. USA* vol. 96 no. 12: pp. 6745-6750 (1999).
- Ansari-Lari et al., "Comparative Sequence Analysis of a Gene-Rich Cluster at Human Chromosome 12p13 and its Syntenic Region in Mouse Chromosome 6," *Genome Research* vol. 8 no. 1: pp. :29-40 (1998).
- Aouizerat et al., "A Genome Scan for Familial Combined Hyperlipidemia Reveals Evidence of Linkage with a Locus on Chromosome 11," *Am. J. Hum. Genet.* vol. 65: pp. 397-412 ((1999).
- Aujame et al., "High Affinity Human Antibodies by Phage Display," *Human Antibodies* vol. 8 no. 4: pp. 155-168 (1997).
- Banér et al., "More Keys to Padlock Probes: Mechanisms for High-Throughput Nucleic Acid Analysis," *Current Opinion in Biotechnology* vol. 12:pp. 11-15 (2001).
- Barbas et al., "Selection of Human Anti-Viral Antibodies," *Trends in Biotechnology* vol. 14: pp. 230-234 (1996).
- Bartosiewicz et al., "Development of a Toxicological Gene Array and Quantitative Assessment of This Technology," *Archives of Biochemistry and Biophysics* vol 376 no. 1: pp. 66-73 (2000).

- Becker et al., "High-Efficiency Transformation of Yeast by Electroporation," *Methods in Enzymology* vol. 194: pp. 182-187 (1991).
- Bennett et al., "Environmental Tobacco Smoke, Genetic Susceptibility, and Risk of Lung Cancer in Never-Smoking Women," *Journal of the National Cancer Institute* vol. 91 no. 23: pp. 2009-2014 (1999).
- Bertram et al., "Evidence for Genetic Linkage of Alzheimer's Disease to Chromosome 10q," *Science* vol. 290: pp. 2302-2303 (22 December 2000).
- Blum et al., "Allelic Association of Human Dopamine D2 Receptor Gene in Alcoholism," *Journal of the American Medical Association* vol 263 no. 15: pp. 2055-2060 (April 18, 1990).
- Bolos et al., "Population and Pedigree Studies Reveal a Lack of Association Between the Dopamine D2 Receptor Gene and Alcoholism," *Journal of the American Medical Association* vol. 264 no. 24: pp. 3156-3160 (December 26, 1990).
- Brenner et al., "In Vitro Cloning of Complex Mixtures of DNA on Microbeads: Physical Separation of Differentially Expressed cDNAs," *Proc. Natl. Acad. Sci. USA* vol. 97 no.4: pp. 1665-1670 (2000).
- Buck, "Genes on Mouse Chromosomes 2 & 9 Determine Variation in Ethanol Consumption," *Mammalian Genome* vol. 9: pp. 936-941 (1998).
- Burge et al., "Prediction of Complete Gene Structures in Human Genomic DNA," *J. Mol. Biol.* vol. 268: pp. 78-94 (1997).
- Burset et al., "Evaluation of Gene Structure Prediction Programs," *Genomics* vol 34: pp 353-367 (1996).
- C. elegans Sequencing Consortium, "Genome Sequence of the Nematode C. elegans: A Platform for Investigating Biology," *Science* vol 282: pp. 2012-2018 (11 December 1998).

- Chai et al., "Structure and Organization of the *RBM* Genes on the Human Y Chromosome: Transposition and Amplification of an Ancestral Autosomal *hnRNP* Gene," *Genomics* vol 49 no. 2: pp. 283-89 (1998).
- Chan et al., "Triplex DNA: Fundamentals, Advances, and Potential Applications for Gene Therapy," *J. Mol. Med.* vol. 75: pp. 267-282 (1997).
- Chataway et al., "The Genetics of Multiple Sclerosis: Principles, Background and Updated Results of the United Kingdom Systematic Genome Screen," *Brain* vol. 121: pp. 1869-1887 (1998).
- Chesi et al., "Frequent Translocation $t(4;14)(p16.3;q32.3)$ in Multiple Myeloma is Associated with Increased Expression and Activating Mutations of Fibroblast Growth Factor Receptor 3," *Nature Genetics* vol. 16: pp. 260-264 (1997).
- Chilcote et al., "Lymphoblastic Leukemia with Lymphomatous Features Associated with Abnormalities of the Short Arm of Chromosome 9," *New England Journal of Medicine* vol. 313: pp. 286-291 (1985).
- Ciccarese et al., "A New Locus for Autosomal Recessive Hypercholesterolemia Maps to Human Chromosome 15q25-q26," *Am. J. Hum. Genet.* vol. 66: pp. 453-460 (2000).
- Cloninger, C. Robert, "Neurogenetic Adaptive Mechanisms in Alcoholism," *Science* vol. 236: pp. 410-416 (1987).
- Co et al., "Humanized Antibodies for Therapy," *Nature* vol. 351: pp. 501-502 (6 June 1991).
- Cormack et al., "FACS-Optimized Mutants of the Green Fluorescent Protein (GFP)," *Gene* vol. 173: pp. 33-38 (1996).
- Culver et al., "Correction of Chromosomal Point Mutations in Human Cells with Bifunctional Oligonucleotides," *Nature Biotechnology* vol. 17: pp. 989-993 (1999).

- Daw et al., "The Number of Trait Loci in Late-Onset Alzheimer Disease," *Am. J. Hum. Genet.* vol. 66: pp. 196-204 (2000).
- de Kruif et al., "New Perspectives on Recombinant Human Antibodies," *Immunology Today* vol. 17 no. 10: pp. 453-455 (1996).
- de Knijff et al., "Genetic Heterogeneity of Apolipoprotein E and Its Influence on Plasma Lipid Lipoprotein Levels," *Human Mutations* vol. 4: pp. 178-194 (1994).
- De Risi et al., "Exploring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale," *Science* vol. 278: pp. 680-686 (1997).
- Delgado et al., "The Uses and Properties of PEG-Linked Proteins," *Critical Reviews in Therapeutic Drug Carrier Systems* vol. 9 nos. 3 & 4: pp. 249-304 (1992).
- DeSantis et al., "Chemical Modification of Enzymes for Enhanced Functionality," *Current Opinion in Biotechnology* vol. 10: pp. 324-330 (1999).
- Digilio et al., "Recurrence Risk Figures for Isolated Tetralogy of Fallot After Screening for 22q11 Microdeletion," *J. Med. Genet.* vol. 34: pp. 188-190 (1997).
- Drees, Becky L., "Progress and Variation in Two-Hybrid and Three-Hybrid Technologies," *Current Opinion in Chemical Biology* vol. 3: pp. 64-70 (1999).
- Duffy, D., "Genetics of Asthma and Allergy: Molecular Genetics," *Review of Molecular Genetics of Asthma and Allergy* (<http://www2.qimr.edu.au/davidD/asthma6.html>).
- Dunham et al., "The DNA Sequence of Human Chromosome 22," *Nature* vol. 402: pp. 489-95 (1999).
- Dyment et al., "Genetics of Multiple Sclerosis," *Human Molecular Genetics* vol. 6 no. 10: pp. 1693-1698 (1997).
- Edelman et al., "Obtaining a Functional Recombinant Anti-Rhesus (D) Antibody Using the Baculovirus-Insect Cell Expression System," *Immunology* vol. 91: pp. 13-19 (1997).

- Eldin et al., "High-Level Secretion of Two Antibody Single Chain Fv Fragments by *Pichia Pastoris*," *Journal of Immunological Methods* vol. 201: pp. 67-75 (1997).
- Ertekin-Taner et al., "Linkage of Plasma A β 42 to a Quantitative Locus on Chromosome 10 in Late-Onset Alzheimer's Disease Pedigrees," *Science* vol. 290 no. 5500: pp. 2303-2304 (2000).
- Escude et al., "Padlock Oligonucleotides for Duplex DNA Based on Sequence-Specific Triple Helix Formation," *Proc. Natl. Acad. Sci. USA* vol. 96: pp. 10603-10607 (1999).
- Fashena et al., "The Continued Evolution of Two-Hybrid Screening Approaches in Yeast: How to Outwit Different Preys with Different Baits," *Gene* vol. 250: pp. 1-14 (2000).
- Fields et al., "The Two-Hybrid System: an Assay for Protein-Protein Interactions," *Trends in Genetics* vol. 10 no. 8: pp. 286-292 (August 1994).
- Finn et al., "Synthesis and Properties of DNA-PNA Chimeric Oligomers," *Nucleic Acids Research* vol. 24 no. 17: pp. 3357-3363 (1996).
- Fischer et al., "Towards Molecular Farming in the Future: Transient Protein Expression in Plants," *Biotechnol. Appl. Biochem.* vol. 30: pp. 113-116 (1999).
- Fischer et al., "Molecular Farming of Recombinant Antibodies in Plants," *Biol. Chem.* vol. 380: pp. 825-839 (July/August 1999).
- Fischer et al., "Antibody Production by Molecular Farming in Plants," *Journal of Biological Regulators and Homeostatic Agents* vol. 14 no. 2: pp. 83-92 (2000).
- Fox, Keith R., "Targeting DNA with Triplexes," *Current Medicinal Chemistry* vol. 7: pp. 17-37 (2000).
- Frenken et al., "Recent Advances in the Large-Scale Production of Antibody Fragments Using Lower Eukaryotic Microorganisms," *Res. Immunol.* vol. 149: pp. 589-599 (1998).

- Freyre et al., "Very High Expression of an Anti-Carcinoembryonic Antigen Single Chain Fv Antibody Fragment in the Yeast *Pichia Pastoris*," *Journal of Biotechnology* vol. 76: pp. 157-163 (2000).
- Fuentes et al., "A New Human Gene from the Down Syndrome Critical Region Encodes a Proline-rich Protein Highly Expressed in Fetal Brain and Heart," *Human Molecular Genetics* vol. 4 no. 10: pp. 1935-1944 (1995).
- Fukushima et al., "DiGeorge Syndrome with del (4) (q21.3q25): Possibility of the Fourth Chromosome Region Responsible for DiGeorge Syndrome," *Am. J. Hum. Genet.* vol. 51 (suppl): p. A80 (1992).
- Gamper et al., "The DNA Strand of Chimeric RNA/DNA Oligonucleotides Can Direct Gene Repair/Conversion Activity in Mammalian and Plant Cell-Free Extracts," *Nucleic Acids Research* vol. 28 no. 21: pp. 4332-4339 (2000).
- Gavilondo et al., "Antibody Engineering at the Millennium," *Biotechniques* vol. 29: pp. 128-138 (2000).
- Geiss et al., "Large-scale Monitoring of Host Cell Gene Expression During HIV-1 Infection Using cDNA Microarrays," *Virology* vol. 266: pp. 8-16 (2000).
- Gerhold et al., "DNA Chips: Promising Toys Have Become Powerful Tools," *Trends in Biochemical Science* vol. 24: pp. 168-173 (1999).
- Geysen et al., "Use of Peptide Synthesis to Probe Viral Antigens for Epitopes to a Resolution of a Single Amino Acid," *Proc. Natl. Acad. Sci. USA* vol. 81: pp. 3998-4002 (July 1984).
- Giddings et al., "Transgenic Plants as Factories for Biopharmaceuticals," *Nature Biotechnology* vol. 18: pp. 1151-1155 (2000).
- Gilbert et al., "The Nucleotide Sequence of the *lac* Operator," *Proc. Natl. Acad. Sci. USA* vol. 70 no. 12 part I: pp. 3581-3584 (December 1973).

- Gish et al., "Identification of Protein coding Regions by Database Similarity Search," *Nature Genetics* vol. 3 no. 3: pp. 266-272 (1993).
- Goffeau et al., "Life with 6000 Genes," *Science* vol. 274: pp. 563-567 (25 October 1996).
- Gonnet et al., "Exhaustive Matching of the Entire Protein Sequence Database," *Science* vol. 256: pp. 1443-1445 (5 June 1992).
- Gottlieb et al., "Characterization of 10p Deletions Suggests Two Nonoverlapping Regions Contribute to the DiGeorge Syndrome Phenotype," *Am. J. Hum. Genet.* vol. 62: pp. 495-498 (1998).
- Greenberg et al., "Cytogenetic Findings in a Prospective Series of Patients with DiGeorge Anomaly," *Am. J. Hum. Genet.* vol. 43: pp. 605-611 (1988).
- Griffiths et al., "Strategies for Selection of Antibodies by Phage Display," *Current Opinion in Biotechnology* vol. 9: pp. 102-108 (1998).
- Haines et al., "Linkage of the MHC to Familial Multiple Sclerosis Suggests Genetic Heterogeneity," *Human Molecular Genetics* vol. 7 no. 8: pp. 1229-1234 (1998).
- Hasstedt et al., "Hypertension and Sodium-Lithium countertransport in Utah Pedigrees: Evidence for Major-Locus Inheritance," *Am. J. Hum. Genet.* vol. 43: pp. 14-22 (1988).
- Hattori et al., "The DNA Sequence of Human Chromosome 21," *Nature* vol. 405: pp. 311-319 (2000).
- Headings et al., "Familial Sarcoidosis with Multiple Occurrences in Eleven Families: A Possible Mechanism of Inheritance," *Annals of the New York Academy of Sciences* vol. 278: pp. 377-385 (1976).
- Hedrick et al., "Isolation of cDNA clones encoding T cell-specific membrane-associated proteins," *Nature* vol. 308: pp. 149-153 (1984).

- Hedrick et al., "Sequence Relationships Between Putative T-Cell Receptor Polypeptides and Immunoglobulins," *Nature* vol. 308: pp.153-158 (1984).
- Heid et al., "Real Time Quantitative PCR," *Genome Research* vol. 6 no. 10: pp. 986-994 (1996).
- Heikal et al., "Molecular Spectroscopy and Dynamics of Intrinsically Fluorescent Proteins: Coral red (dsRed) and Yellow (Citrine)," *Proc. Natl. Acad. Sci. USA* vol. 97: pp. 11996-12001 (2000).
- Heim et al., "Engineering Green Fluorescent Protein for Improved Brightness, Longer Wavelengths and Fluorescence Resonance Energy Transfer," *Current Biology* vol. 6: pp. 178-182 (1996).
- Heizmann, Clauss W., "Ca²⁺ Binding S100 Proteins in the Central Nervous System*," *Neurochemical Research* vol. 24 no. 9: pp. 1097-1100 (1997).
- Heller et al., "Discovery and Analysis of Inflammatory Disease-related Genes Using cDNA Microarrays," *Proc. Natl. Acad. Sci. USA* vol. 94: pp. 2150-2155 (1997).
- Henegariu et al., "Custom Fluorescent-Nucleotide Synthesis as an Alternative Method for Nucleic Acid Labeling," *Nature Biotechnology* vol. 18: pp. 345-348 (March 2000).
- Henikoff et al., "Amino Acid Substitution Matrices from Protein Blocks," *Proc. Natl. Acad. Sci. USA* vol. 89: pp. 10915-10919 (November 1992).
- Ho et al., "Linkage of a Familial Platelet Disorder with a Propensity to Develop Myeloid Malignancies to Human Chromosome 21q22.1-22.2," *Blood* vo. 87: pp. 5218-5224 (1996).
- Holland et al., "Detection of Specific Polymerase Chain reaction Product by Utilizing the 5' → 3' Exonuclease Activity of *Thermus Aquaticus* DNA Polymerase," *Proc. Natl. Acad. Sci. USA* vol. 88: pp. 7276-7280 (1991).
- Holmes et al., "Comment," *Birth Defects Original Article Series* vol. X no. 4: pp. 228-230 (1974).

- Hong et al., "Profiling the Downstream Genes of Tumor Suppressor *PTEN* in Lung Cancer Cells by Complementary DNA Microarray," *Am. J. Respir. Cell Molecular Biology* vol. 23: pp. 355-363 (2000).
- Hoogenboom, "Designing and Optimizing Library Selection Strategies for Generating High-Affinity Antibodies," *Trends in Biotechnology* vol. 15: pp. 62-70 (February 1997).
- Hoogenboom et al., "Antibody Phage Display Technology and its Applications," *Immunotechnology*, vol. 4: pp. 1-20 (1998).
- Horne et al., "Possible Protective Effect Against Chronic Obstructive Airways Disease by the GC 2 Allele," *Hum. Hered.* vol. 40: pp. 173-176 (1990).
- Horwitz et al., "Genetic Heterogeneity in Familial Acute Myelogenous Leukemia: Evidence for a Second Locus at Chromosome 16q21-23.2," *Am. J. Hum. Genet.* vol. 61: pp. 873-881 (1997).
- Hsu et al., "Coexpression of Molecular Chaperone BiP Improves Immunoglobulin Solubility and IgG Secretion from *Trichoplusia ni* Insect Cells," *Biotechnol. Prog.* vol. 13: pp. 96-104 (1997).
- Hudson, "Recombinant Antibody Fragments," *Current Opinion in Biotechnology* vol. 9: pp. 395-402 (1998).
- Huss et al., "Genetics of Asthma and Allergies," *Nursing Clinics of North America* vol. 35 no. 3: pp. 695-705 (2000).
- International Human Genome Sequencing Consortium, "Initial Sequencing and Analysis of the Human Genome," *Nature* vol. 409: pp. 860-921 (15 February 2001).
- Ishihara et al., "Genetic Polymorphism in Intron 6 of the LMP7 Gene in Japanese and its Association with Sarcoidosis," *Tissue Antigens* vol. 50: pp. 650-653 (1997).
- Jelsma et al., "Increase Labeling of DNA Probes for *In Situ* Hybridization with the Universal Linkage System (ULS)," *Journal of NIH Research* vol. 5: p. 82 (1994).

- Johnson et al., "Chromosome Abnormalities in Congenital Heart Disease," *Am. J. Med. Genet.* vol. 70: pp. 292-298 (1997).
- Joshi et al., "A Novel Ferritin Heavy Chain Messenger Ribonucleic Acid in the Human Brain," *J. Neurol. Sci.* vol. 134(Suppl): pp. 52-56 (1995).
- Juo et al., "A Common Genetic Mecanism Determines Plasma Apolipoprotein B Levels and Dense LDL Subfraction Distribution in Familial Combined Hyperlipidemia," *Am. J. Hum. Genet.* vol. 63: pp. 586-594 (1998).
- Kalra et al., "Indian Childhood Cirrhosis- A Heritable Disease," *Hum. Hered.* vol. 32: pp. 170-175 (1982).
- Kaminski et al., "Global Analysis of Gene Expression in Pulmonary Fibrosis Reveals Distinct Programs Regulating Lung Inflammation and Fibrosis," *Proc. Natl. Acad. Sci. USA* vol. 97: pp. 1778-1783 (2000).
- Khoury et al., "Familial Aggregation in Chronic Obstructive Pulmonary Disease: Use of the Loglinear Model to Analyze Intermediate Environmental and Genetic Risk Factors," *Genetic Epidemiology* vol. 2: pp. 155-166 (1985).
- Klitz et al., "Localization of Predisposition to Hodgkin Disease in the HLA Class II Region," *Am. J. Hum. Genet.* vol. 54: pp. 497-505 (1994).
- Kochetkova et al., "Triplex-Forming Oligonucleotides and Their Use in the Analysis of Gene Transcription," *Methods in Molecular Biology* vol. 130: pp. 189-201 (2000).
- Kole et al., "Protein-Tyrosine Phosphatase Inhibition by a Peptide Containing the Phosphotryosyl Mimetic, L-O-Malonyltyrosine," *Biochemical & Biophysical Research Communications* vol. 209 no. 3: pp. 817-821 (1995).
- Kostrikis et al., "Spectral Genotyping of Human Alleles," *Science* vol. 279: pp. 1228-1229 (1998).

- Kowalczyk et al., "A Possible Subgroup of ALL with 9p," *Cancer Genetics & Cytogenetics* vol. 9: pp. 383-385 (1981).
- Kricka et al., "Comparison of 5-Hydroxy-2, 3-Dihydrophthalazine-1, 4-Dione and Luminol as Co-Substrates for Detection of Horseradish Peroxidase in Enhanced Chemiluminescent Reactions," *Journal of Immunoassay* vol. 17: pp. 67-83 (1996).
- Kuimelis et al., "Structural Analogues of TaqMan Probes for Real-Time Quantitative PCR," *Nucleic Acids Symposium Series* no. 37: pp. 255-256 (1997).
- Lander et al., "The Chipping Forecast," *Supplement to Nature Genetics* vol. 21 no. 1: pp. 1-60 (January 1999).
- Larsen et al., "Antisense Properties of Peptide Nucleic Acid," *Biochimica et Biophysica Acta* vol. 1489: pp. 159-166 (1999).
- Lashkari et al., "Yeast Microarrays for Genome Wide Parallel Genetic and Gene Expression Analysis," *Proc. Natl. Acad. Sci. USA* vol. 94: pp. 13057-13062 (1997).
- Lauffer et al., "MS-325: Albumin-Targeted Contrast Agent for MR Angiography," *Radiology* vol. 207 no. 2: pp. 529-538 (1998).
- Lefkowitz et al., "Hepatic Copper Overload and Features of Indian Childhood Cirrhosis in an American Sibship," *New Eng. J. Med.* vol. 307: pp. 271-277 (1982).
- Lennon et al., "The I.M.A.G.E. Consortium: A Integrated Molecular Analysis of Genomes and Their Expression," *Genomics* vol. 33 no. 1: pp. 151-152 (April 1996).
- Lerner, "Tapping the immunological repertoire to produce antibodies of predetermined specificity," *Nature* vol. 299: pp. 592-596 (1982).
- Li et al., "Production of Functional Antibodies Generated in a Nonlytic Insect Cell Expression System," *Protein Expression and Purification* vol. 21: pp. 121-128 (2001).

- Li et al., "Deletions of the Aequorea Victoria Green Fluorescent Protein Define the Minimal Domain Required for Fluorescence," *Journal of Biological Chemistry* vol. 272: pp. 28545-28549 (1997).
- Lin et al., "Sequence and Analysis of Chromosome 2 of the Plant *Arabidopsis Thaliana*," *Nature* vol. 402: pp. 761-768 (1999).
- Liu et al., "Progress Toward the Evolution of an Organism with an Expanded Genetic Code," *Proc. Natl. Acad. Sci. USA* vol. 96: pp. 4780-4785 (1999).
- Livesey et al., "Microarray Analysis of the Transcriptional Network Controlled by the Photoreceptor Homeobox Gene *Crx*," *Current Biology* vol. 10: pp. 301-310 (2000).
- Lizardi et al., "Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification," *Nature Genetics* vol. 19: pp. 225-232 (1998).
- Lopez et al., "YIDB: the Yeast Intron Data Base," *Nucleic Acids Research* vol. 28: pp. 85-86 (2000).
- Lopez et al., "Genomic-Scale Quantitative Analysis of Yeast pre-mRNA Splicing: Implications for Splice-Site Recognition," *RNA* vol. 5: pp. 1135-1137 (1999).
- Luban et al., "The Yeast Two-Hybrid System for Studying Protein-Protein Interactions," *Current Opinions in Biotechnology* vol. 6: pp. 59-64 (1995).
- Luisetti et al., "The Search for Susceptibility Genes of COPD," *Mondaldi Arch. Chest. Dis.* vol. 50 no. 1: pp. 28-32 (1995).
- Lundqvist et al., "Influence of Different Luminols on the Characteristics of the Chemiluminescence Reaction in Human Neutrophils," *J. Biolumin. Chemilumin.* vol. 10: pp. 353-359 (1995).
- Ma et al., "Plant Antibodies for Immunotherapy," *Plant Physiology* vol. 109: pp. 341-346 (1995).

- Marra et al., "An Encyclopedia of Mouse Genes," *Nature Genetics* vol. 21: pp. 191-194 (1999).
- Marras et al., "Multiplex Detection of Single-Nucleotide Variations Using Molecular Beacons," *Genetic Analysis: Biomolecular Engineering* vol. 14: pp. 151-156 (1999).
- Mendelsohn et al., "Applications of Interaction Traps/Two-Hybrid Systems to Biotechnology Research," *Current Opinion in Biotechnology* vol. 5: pp. 482-486 (1994).
- Merchant et al., "Recent Advancements in Surface-Enhanced Laser Desorption/Ionization-Time of Flight-Mass Spectrometry," *Electrophoresis* vol. 21: pp. 1164-1177 (2000).
- Merk et al., "Cell-Free Expression of Two Single-Chain Monoclonal Antibodies Against Lysozyme: Effect of Domain Arrangement on the Expression," *J. Biochem.* vol. 125 no. 2: pp. 328-33 (1999).
- Millward et al., "Regulation of Protein Kinase Cascades by Protein Phosphatase 2A," *Trends in Biochemical Science* vol. 24: pp. 186-191 (1999).
- Misra et al., "Polyamide Nucleic Acid-DNA Chimera Lacking the Phosphate Backbone Arc Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases," *Biochemistry* vol. 37: pp. 1917-1925 (1998).
- Miyawaki et al., "Fluorescent Indicators for Ca^{2+} Based on Green Fluorescent Proteins and Calmodulin," *Nature* vol. 388: pp. 882-887 (1997).
- Morrison et al., "Chimeric Human Antibody Molecules: Mouse Antigen-Binding Domains with Human constant Region Domains," *Proc. Natl. Acad. Sci. USA* vol. 81: pp. 6851-6855 (1984).
- Murphy et al., "Letter to the Editor," *New England Journal of Medicine* vol. 313: p. 1611 (1985).
- Myers et al., "Susceptibility Locus for Alzheimer's Disease on Chromosome 10," *Science* vol. 290: pp. 2304-2305 (2000).

- Nesbit et al., "Production of a Functional Monoclonal Antibody Recognizing Human Colorectal Carcinoma Cells from a Baculovirus Expression System," *Journal of Immunological Methods* vol. 151: pp. 201-208 (1992).
- Nielsen, "Applications of Peptide Nucleic Acids," *Current Opinion in Biotechnology* vol. 10: pp. 71-75 (1999).
- Nielsen, "Peptide Nucleic Acids as Therapeutic Agents," *Current Opinion in Structural Biology* vol. 9: pp. 353-357 (1999).
- Nielsen et al., "Peptide Nucleic Acids: On the Road to New Gene Therapeutic Drugs," *Pharmacology & Toxicology* vol. 86: pp. 3-7 (2000).
- Nilsson et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," *Science* vol. 265 no. 5181: pp. 2085-2088 (1994).
- Nowack et al., "Genetic Aspects of Sarcoidosis: Class II Histocompatibility Antigens and a Family Study," *Archives of Internal Medicine* vol. 147: pp. 481-483 (1987).
- Nuwaysir et al., "Microarrays and Toxicology: the Advent of Toxicogenomics," *Molecular Carcinogenesis* vol. 24: pp. 153-159 (1999).
- Ormö et al., "Crystal Structure of the Aequorea Victoria Green Fluorescent Protein," *Science* vol. 273: pp. 1392-1395 (1996).
- Pajukanta et al., "Linkage of Familial Combined Hyperlipidaemia to Chromosome 1q21-q23," *Nature Genetics* vol. 18: pp. 369-373 (April 1998).
- Palm et al., "Spectral Variants of Green Fluorescent Protein," in Green Fluorescent Proteins, Conn (ed.), *Methods in Enzymology* vol. 302: pp. 378-394 (1999).
- Pennell et al., "In Vitro Production of Recombinant Antibody Fragments in *Picis Pastoris*," *Research in Immunology* vol. 149 no. 6: pp. 599-603 (1998).

- Pennisi, "Academic Sequencers Challenge Celera in a Sprint to the Finish," *Science* vol. 283: pp. 1822-1823 (1999).
- Perou et al., "Distinctive Gene Expression Patterns in Human Mammary Epithelial Cells and Breast Cancers," *Proc. Natl. Acad. Sci. USA* vol. 96: pp. 9212-9217 (1999).
- Perucho et al., "Human-Tumor-Derived Cell Lines Contain Common and Different Transforming Genes," *Cell* vol. 27: pp. 467-76 (December 1981).
- Perusse et al., "Evidence That a Single Gene with Gender- and Age-Dependent Effects Influences Systolic Blood Pressure Determination in a Population-Based Sample," *Am. J. Hum. Genet.* vol. 49: pp. 94-105 (1991).
- Pollock et al., "Transgenic Milk as a Method for the Production of Recombinant Antibodies," *Journal of Immunological Methods* vol. 231: pp. 147-157 (1999).
- Posnett et al., "A Novel Method for Producing Anti-Peptide Antibodies," *Journal of Biological Chemistry* vol. 263: pp. 1719-1725 (1988).
- Praseuth et al., "Triple Helix Formation and the Antigene Strategy for Sequence-Specific Control of Gene Expression," *Biochimica et Biophysica Acta* 1489: pp. 181-206 (1999).
- Prochazka et al., "Association of Primary Sclerosing Cholangitis with HLA-DRw52a," *New England Journal of Medicine* vol. 322: pp. 1842-1844 (1990).
- Rader et al., "Phase Display of Combinatorial Antibody Libraries," *Current Opinion in Biotechnology* vol. 8: pp. 503-508 (1997).
- Ray et al., "Peptide Nucleic Acid (PNA): Its Medical and Biotechnical Applications and Promise for the Future," *The FASEB Journal* vol. 14: pp. 1041-1060 (June 2000).

- Reeves, Roger H., "Recounting a Genetic Story: The DNA Sequence of Human Chromosome 21, Now Published, Provides Indication that the Total Number of Human Genes Has Been Overestimated, and is a Valuable Resource for Research in Down Syndrome," *Nature* vol. 405: pp. 283-284 (2000).
- Retig et al., "Kaposi's Sarcoma-Associated Herpesvirus Infection of Bone Marrow Dendritic Cells from Multiple Myeloma Patients," *Science* vol. 276: pp. 1851-1854 (1997).
- Riechmann et al., "Reshaping Human Antibodies for Therapy," *Nature* vol. 332: pp. 323-327 (24 March 1988).
- Rotter et al., "Multilocus Genetic Determinants of LDL Particle Size in Coronary Artery Disease Families," *Am. J. Hum. Genet.* vol. 58: pp. 585-594 (1996).
- Russell, D.A., "Feasibility of Antibody Production in Plants for Human Therapeutic Use," *Current Topics in Microbiology & Immunology* vol. 240: pp. 119-38 (1999).
- Ryabova et al., "Functional Antibody Production Using Cell-Free Translation: Effects of Protein Disulfide Isomerase and Chaperones," *Nature Biotechnology* vol. 15: pp. 79-84 (1997).
- Rybicki et al., "Genetics of Sarcoidosis," *Clinics in Chest Medicine* vol. 18: pp. 707-717 (1997).
- Sander et al., "Genome Search for Susceptibility Loci of Common Idiopathic Generalised Epilepsies," *Human Molecular Genetics* vol. 9: pp. 1465-1472 (2000).
- Sandford et al., "Genetic Risk Factors for Chronic Obstructive Pulmonary Disease," *European Respiratory Journal* vol. 10: pp. 1380-1391 (1997).
- Sanger et al., "Use of DNA Polymerase I Primed by a Synthetic Oligonucleotide to Determine a Nucleotide Sequence in Phage f1 DNA," *Proc. Natl. Acad. Sci. USA* vol. 70: pp. 1209-1213 (1973).
- Scherf et al., "A Gene Expression Database for the Molecular Pharmacology of Cancer," *Nature Genetics* vol. 24 no. 3: pp. 236-244 (2000).

- Schiestl et al., "High Efficiency Transformation of Intact Yeast Cells Using Single Stranded Nucleic Acids as a Carrier," *Current Genetics* vol. 16 nos.5 & 6: pp. 339-346 (1989).
- Schoner et al., "Translation of a Synthetic Two-Cistron mRNA in *Escherichia coli*," *Proc. Natl. Acad. Sci. USA* vol. 83: pp. 8506-8510 (1986).
- Schott et al., "Cardiac Conduction Defects Associate with Mutation in *SCN5A*," *Nature Genetics* vol. 23: pp. 20-21 (1999).
- Schweitzer et al., "Combining Nucleic Acid Amplification and Detection," *Current Opinion in Biotechnology* vol. 12: pp. 21-27 (2001).
- Scott et al., "Cellular Camouflage: Fooling the Immune System with Polymers," *Current Pharmaceutical Design* vol. 4: pp. 423-438 (1998).
- Service, "Picking Up the Pace of Sequencing," *Science* vol. 280: p. 995 (1998).
- Sgroi et al., "In vivo Gene Expression Profile Analysis of Human Breast Cancer Progression," *Cancer Research* vol. 59: pp. 5656-5661 (1999).
- Sharon et al., "Expression of a VHCK Chimaeric Protein in Mouse Myeloma Cells," *Nature* vol. 309: pp. 364-367 (1984).
- Shaw et al., "A Genome-Wide Search for Schizophrenia Susceptibility Genes," *Am. J. Med. Genet.* vol. 81: pp. 364-376 (1998).
- Shelton et al., "Microarray Analysis of Replicative Senescence," *Current Biology* vol. 9: pp. 939-945 (1999).
- Shinnick et al., "Synthetic Peptide Immunogens as Vaccines," *Annual Review of Microbiology* vol. 37: pp. 425-446 (1983).
- Shugart et al., "Combined Segregation and Linkage Analysis of 59 Hodgkin's Disease Families Indicates the Role of HLA Determinants," *European Journal of Human Genetics* vol. 8: pp. 460-463 (2000).

- Shusta et al., "Increasing the Secretory Capacity of *Saccharomyces Cerevisiae* for Production of Single-Chain Antibody Fragments," *Nature Biotechnology* vol. 16: pp. 773-777 (August 1998).
- Sidhu, Sachdev S., "Phage Display in Pharmaceutical Biotechnology," *Current Opinion in Biotechnology* vol. 11: pp. 610-616 (2000).
- Sjogren et al., "Morbus Alzheimer and Morbus Pick," *Acta Psychiat. Neurol. Scand.* vol. 82 (suppl): pp. 1-152 (1952).
- Slutsky, Arthur S. M.D., "Genetics of Asthma: From chicken Soup to Napoleon to Toronto," *Journal of Clinical Pharmacology* vol. 39: pp. 246-251 (March 1999).
- Smith et al., "Association Between Polymorphism in Gene for Microsomal Epoxide Hydrolase and Susceptibility to Emphysema," *The Lancet* vol. 350: pp. 630-33 (1997).
- Sokol et al., "Real Time Detection of DNA-RNA Hybridization in Living Cells," *Proc. Natl. Acad. Sci. USA* vol. 95: pp. 11538-11543 (1998).
- Solovyev et al., "Predicting Internal Exons by Oligonucleotide Composition and Discriminant Analysis of Spliceable Open Reading Frames," *Nucleic Acids Research* vol. 22: pp. 5756-5763 (1994).
- Solovyev et al., "The Gene-Finder computer Tools for Analysis of Human and Model Organisms Genome Sequences," *Ismb* vol. 5: pp. 294-302 (1997).
- Spingola et al., "Genome-Wide Bioinformatic and Molecular Analysis of Introns in *Saccharomyces Cerevisiae*," *RNA* vol. 5 no. 2: pp. 221-234 (1999).
- Strausberg et al., "New Opportunities for Uncovering the Molecular Basis of Cancer," *Nature Genetics* vol. 15: p.p. 415-416 (1997).
- Sutcliffe et al., "Antibodies that react with predetermined sites on proteins," *Science* vol. 219: pp. 660-666 (1983).

- Takahashi et al., "Production of Humanized Fab Fragment Against Human High Affinity IgE Receptor in *Pichia Pastoris*," *Biosci. Biotechnol. Biochem.* vol. 64 no. 10: pp. 2138-2144 (2000).
- Takeda et al., "Construction of Chimaeric Processed Immunoglobulin Genes Containing Mouse Variable and Human constant Region Sequences," *Nature* vol. 314: pp. 452-454 (April 1985).
- Taki et al., "AF5q31, a Newly Identified AF4-Related Gene, is Fused to *MLL* in Infant Acute Lymphoblastic Leukemia with ins(5;11)(q31;q13q23)," *Proc. Natl. Acad. Sci. USA* vol. 96: pp. 14535-14540 (1999).
- Tam et al., "Synthetic Peptide Vaccine Design: Synthesis and Properties of a High-Density Multiple Antigenic Peptide System," *Proc. Natl. Acad. Sci. USA* vol. 85: pp. 5409-5413 (1988).
- Tatusova et al., "Blast 2 sequences - a new tool for comparing protein and nucleotide sequences," *FEMS Microbiology Letters* vol. 174: pp. 247-250 (1999).
- Thomas et al., "Dioxin Induced Changes in Global Expression as Measured Using EST Frequency and CDNA Microarrays: Identification of a Second Gene Battery," *Toxicologist* vol. 54: pp. 68-69 (2000).
- Thorpe et al., "Bioluminescence and Chemiluminescence," *Methods in Enzymology* vol. 133: pp. 331-353 (1986).
- Tiihonen et al., "Association Between the Functional Variant of the Catechol-O-Methyltransferase (COMT) Gene and Type 1 Alcoholism," *Molecular Psychiatry* vol. 4: pp. 286-289 (1999).
- Topcu et al., "The Yeast Two-Hybrid System and Its Pharmaceutical Significance," *Pharmaceutical Research* vol. 17 no. 9: pp. 1049-1055 (2000).
- Townley et al., "Segregation Analysis of Bronchial Response to Methacholine Inhalation Challenge in Families with and without Asthma," *Journal of Allergy Clinical Immunology* vol. 77: pp. 101-107 (1986).

- Tyagi et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," *Nature Biotechnology* vol. 14: pp. 303-308 (1996).
- Uberbacher et al., "Locating Protein-Coding Regions in Human DNA Sequences by a Multiple Sensor-Neural Network Approach," *Proc. Natl. Acad. Sci. USA* vol. 88: pp.11261-11265 (1991).
- Uberbacher et al., "Discovering and Understanding Genes in Human DNA Sequence Using GRAIL," *Methods in Enzymology* vol. 266: pp. 259-281 (1996).
- Van Belkum et al., "Non-Isotopic Labeling of DNA by Newly Developed Hapten-Containing Platinum Compounds," *BioTechniques* vol. 16 no. 1: pp. 148-153 (1994).
- Verma et al., "Antibody Engineering: Comparison of Bacterial, Yeast, Insect and Mammalian Expression Systems," *Journal of Immunological Methods* vol. 216: pp. 165-81 (1998).
- Voehringer et al., "Gene Microarray Identification of Redox and Mitochondrial Elements That Control Resistance or Sensitivity to Apoptosis," *Proc. Natl. Acad. Sci. USA* vol. 97: pp. 2680-2685 (2000).
- Wang et al., "Identification of Genes Differently Over-expressed in Lung Squamous Cell Carcinoma Using Combination of cDNA Subtraction and Microarray Analysis," *Oncogene* vol. 19: pp. 1519-1528 (2000).
- Wei et al., "The *NOTCH4* Locus is Associated with Susceptibility to Schizophrenia," *Nature Genetics* vol. 25: pp. 376-377 (2000).
- Whitney et al., "Analysis of Gene Expression in Multiple Sclerosis Lesions Using cDNA Microarrays," *Annals of Neurology* vol. 46 no.3: pp. 425-428 (1999).
- Williams et al., "A Two-Stage Genome Scan for Schizophrenia Susceptibility Genes in 196 Affected Sibling Pairs," *Human Molecular Genetics* vol. 8 no. 9: pp. 1729-1739 (1999).
- Williamson, Alan R., "The Merck Gene Index Project," *Drug Discovery Today* vol. 4 no. 3: pp. 115-122 (1999).

Winter et al., "Making Antibodies by Phage Display Technology," *Annual Review of Immunology*: pp. 433-455 (1994).

Xu et al., "Recognizing Exons in Genomic Sequence Using Grail II," *Genetic Engineering* vol. 16: pp. 241-53 (1994).

Xu et al., "An Extreme-Sib-Pair Genome Scan for Genes Regulating blood Pressure," *Am. J. Hum. Genet.* vol. 64: pp. 1694-1701 (1999).

Zara et al., "Mapping of Genes Predisposing to Idiopathic Generalized Epilepsy," *Human Molecular Genetics* vol. 4 no. 7: pp. 1201-1207 (1995).

Zoger et al., "Deletion of 13q14 Remains an Independent Adverse Prognostic Variable in Multiple Myeloma Despite Its Frequent Detection by Interphase Fluorescence in Situ Hybridization," *Blood* vol. 95 no. 6: pp. 1925-1930 (2000).

Zuliani et al., "Characterization of a New Form of Inherited Hypercholesterolemia," *Arterioscler. Thromb. Vasc. Biol.* vol. 19: pp. 802-809 (1999).

Zweiger, "Knowledge Discovery in Gene-Expression-Microarray Data: Mining the Information Output of the Genome," *Trends in Biotechnology* vol. 17: pp. 429-436 (1999).

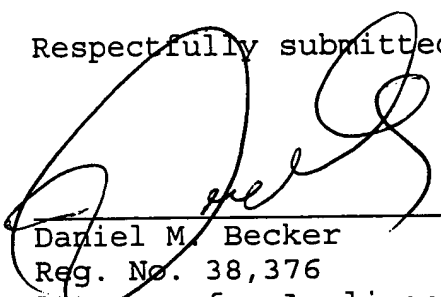
Copies of the aforementioned documents, which are listed on the accompanying Form PTO-1449 (submitted in duplicate), are enclosed herewith.

It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent that may issue on this application. Applicants request that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

An early and favorable action is respectfully
requested.

Respectfully submitted,

29 Nov
2001



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,204,250	03/20/01	Bot et al.			
	6,124,128	09/26/00	Tsien et al.			
	6,110,898	08/29/00	Malone et al.			
	6,096,865	08/01/00	Michaels			
	6,090,919	07/18/00	Cormack et al.			
	6,066,476	05/23/00	Tsien et al.			
	6,057,107	05/02/00	Fulton			
	6,054,321	04/25/00	Tsien et al.			
	6,051,831	04/18/00	Köster			
	6,046,800	04/04/00	Ohtomo et al.			
	6,042,549	03/28/00	Amano et al.			
	6,027,881	02/22/00	Pavlakakis et al.			
	6,025,201	02/15/00	Zelmanovic et al.			
	6,017,897	01/25/00	Li et al.			
	6,016,191	01/18/00	Ramos et al.			
	6,004,752	12/21/99	Loewy et al.			
	6,004,744	12/21/99	Goelet et al.			
	6,001,233	12/14/99	Levy			
	5,990,689	11/23/99	Poncon			
	5,985,847	11/16/99	Carson et al.			
	5,984,175	11/16/99	Popp			
	5,968,750	10/19/99	Zolotukhin et al.			
	5,960,411	09/28/99	Hartman et al.			
	5,958,891	09/28/99	Hsu et al.			
	5,945,339	08/31/99	Holloman et al.			
	5,930,143	07/27/99	Savazzi			
	5,925,517	07/20/99	Tyagi et al.			
	5,889,351	03/30/99	Okumura et al.			

EXAMINER

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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1645

U.S. PATENT DOCUMENTS

5,888,983	03/30/99	Kmiec et al.			
5,880,104	03/09/99	Li et al.			
5,874,304	02/23/99	Zolotukhin et al.			
5,871,984	02/16/99	Kmiec			
5,854,033	12/29/98	Lizardi			
5,846,726	12/08/98	Nadeau et al.			
5,843,913	12/01/98	Li et al.			
5,830,877	11/03/98	Carson et al.			
5,824,269	10/20/98	Kosaka et al.			
5,804,566	09/08/98	Carson et al.			
5,804,387	09/08/98	Cormack et al.			
5,795,972	08/18/98	Kmiec			
5,783,674	07/21/98	Geysen			
5,780,296	07/14/98	Holloman et al.			
5,777,079	07/07/98	Tsien et al.			
5,760,012	06/02/98	Kmiec et al.			
5,756,325	05/26/98	Kmiec			
5,744,305	04/28/98	Fodor et al.			
5,741,668	04/21/98	Ward et al.			
5,736,330	04/07/98	Fulton			
5,731,181	03/24/98	Kmiec			
5,723,591	03/03/98	Livak et al.			
5,719,262	02/17/98	Buchardt et al.			
5,714,331	02/03/98	Buchardt et al.			
5,714,320	02/03/98	Kool			
5,679,647	10/21/97	Carson et al.			
5,677,439	10/14/97	Weis et al.			
5,677,437	10/14/97	Teng et al.			
5,663,312	09/02/97	Chaturvedula			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
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AEOMICA_X_1SERIAL NO.
09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn et al.FILING DATE
May 23, 2001GROUP
1645

U.S. PATENT DOCUMENTS

	5,633,360	05/27/97	Bischofberger et al.			
	5,625,050	04/29/97	Beaton et al.			
	5,625,048	04/29/97	Tsien et al.			
	5,623,070	04/22/97	Cook et al.			
	5,618,704	04/08/97	Sanghvi et al.			
	5,610,289	03/11/97	Cook et al.			
	5,608,046	03/04/97	Cook et al.			
	5,602,240	02/11/97	De Mesmaeker et al.			
	5,596,086	01/21/97	Matteucci et al.			
	5,595,915	01/21/97	Geysen			
	5,589,466	12/31/96	Felgner et al.			
	5,587,361	12/24/96	Cook et al.			
	5,571,799	11/05/96	Tkachuk et al.			
	5,570,694	11/05/96	Rometsch			
	5,563,253	10/08/96	Agrawal et al.			
	5,561,225	10/01/96	Maddry et al.			
	5,550,111	08/27/96	Suhadolnik et al.			
	5,541,307	07/30/96	Cook et al.			
	5,541,306	07/30/96	Agrawal et al.			
	5,539,084	07/23/96	Geysen			
	5,539,082	07/23/96	Nielsen et al.			
	5,538,848	07/23/96	Livak et al.			
	5,536,821	07/16/96	Agrawal et al.			
	5,519,126	05/21/96	Hecht			
	5,489,677	02/06/96	Sanghvi et al.			
	5,476,925	12/19/95	Letsinger et al.			
	5,470,967	11/28/95	Huie et al.			
	5,466,677	11/14/95	Baxter et al.			
	5,455,233	10/3/95	Spielvogel et al.			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AEOMICA_X_1SERIAL NO.
09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn t al.FILING DATE
May 23, 2001GROUP
1645

U.S. PATENT DOCUMENTS

5,453,496	09/26/95	Caruthers et al.			
5,445,934	08/29/95	Fodor et al.			
5,434,257	07/18/95	Matteucci et al.			
5,405,939	04/11/95	Suhadolnik et al.			
5,405,938	04/11/95	Summerton et al.			
5,399,676	03/21/95	Froehler			
5,321,131	06/14/94	Agrawal et al.			
5,286,717	02/15/94	Cohen et al.			
5,279,044	01/18/94	Bremer			
5,278,302	01/11/94	Caruthers et al.			
5,276,019	01/04/94	Cohen et al.			
5,264,564	11/23/93	Matteucci			
5,264,562	11/23/93	Matteucci			
5,264,423	11/23/93	Cohen, et al.			
5,235,033	08/10/93	Summerton et al.			
5,216,141	06/01/93	Benner			
5,214,134	05/25/93	Weiss et al.			
5,188,897	02/23/93	Suhadolnik et al.			
5,186,042	02/16/93	Miyazaki			
5,185,444	02/09/93	Summerton et al.			
5,177,196	01/05/93	Meyer, Jr. et al.			
5,166,315	11/24/92	Summerton et al.			
5,034,506	07/23/91	Summerton et al.			
5,023,243	06/11/91	Tullis			
4,708,871	11/24/87	Geysen			
4,476,301	10/09/84	Imbach et al.			
4,469,863	09/04/84	Ts'o et al.			
4,246,774	01/27/81	Flesselles et al.			
3,687,808	08/29/72	Merigan et al.			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not consider d. Include copy of this form with next communication to applicant.

FORM PTO-1449

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AEOMICA_X_1SERIAL NO.
09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn t al.FILING DATE
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1645

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 00/15779	03/23/00	PCT				
	WO 99/58720	11/18/99	PCT				
	WO 98/59362	12/30/98	PCT				
	WO 98/59361	12/30/98	PCT				
	WO 98/59360	12/30/98	PCT				
	WO 98/12559	03/26/98	PCT				
	WO 97/43316	11/20/97	PCT				
	WO 97/34631	09/25/97	PCT				
	WO 97/19193	05/29/97	PCT				
	WO 96/32478	10/17/96	PCT				
	WO 96/18412	06/20/96	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Adams <i>et al.</i> , "Initial Assessment of Human Gene Diversity and Expression of Patterns Based Upon 83 Million Nucleotides of cDNA Sequence," <i>Nature</i> 377 (suppl.): pp. 3-174 (September 1995).
	Adams <i>et al.</i> , "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genom Project," <i>Science</i> 252: pp. 1651-1656 (21 June 1991).
	Ailor <i>et al.</i> , "Overexpression of a Cystolic Chaperone in Insect Cells," <i>Biotechnology & Bioengineering</i> , Vol. 58 No. 2 & 3: pp. 196-203 (April 20/May 5, 1998).
	Alers <i>et al.</i> , "Universal Linkage System: An Improved Method for Labeling Archival DNA for Comparative Genomic Hybridization," <i>Genes, Chromosomes & Cancer</i> , Vol. 25: pp. 301-305 (1999).
	Alizadeh <i>et al.</i> , "Distinct Types of Diffuse Large B-Cell Lymphoma Identified by Gene Expression Profiling," <i>Nature</i> vol. 403: pp. 503-11 (February 2000).
	Allayee <i>et al.</i> , "Families with Familial Combined Hyperlipidemia and Families Enriched for Coronary Artery Disease Share Genetic Determinants for the Atherogenic Lipoprotein Phenotype," <i>Am. J. Hum. Genet.</i> 63: pp. 577-585 (1998).
	Allen <i>et al.</i> , "Finding Prospective Partners in the Library: the Two-Hybrid System and Phage Display Find a Match," <i>Trends in Biochemical Science</i> vol. 20: pp. 511-516 (December 1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, wh ther or not citation is in conformance with MPEP 609; Draw lin through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
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AEOMICA_X_1SERIAL NO.
09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn tal.FILING DATE
May 23, 2001GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Allison, Jr, J.R. M.D., "Sarcoidosis: I. Familial Occurrence, II. Pseudotumor Cerebri and Unusual Skin Lesions*", <i>Southern Medical Journal</i> vol. 57 no. 1: pp. 27-32 (January 1964).
	Alon <i>et al.</i> , "Broad Patterns of Gene Expression Revealed by Clustering Analysis of Tumor and Normal Colon Tissues Probed by Oligonucleotide Arrays," <i>Proc. Natl. Acad. Sci. USA</i> vol. 96 no. 12: pp. 6745-6750 (1999).
	Ansari-Lari <i>et al.</i> , "Comparative Sequence Analysis of a Gene-Rich Cluster at Human Chromosome 12p13 and its Syntenic Region in Mouse Chromosome 6," <i>Genome Research</i> vol. 8 no. 1: pp. :29-40 (1998).
	Aouizerat <i>et al.</i> , "A Genome Scan for Familial Combined Hyperlipidemia Reveals Evidence of Linkage with a Locus on Chromosome 11," <i>Am. J. Hum. Genet.</i> vol. 65: pp. 397-412 ((1999).
	Aujame <i>et al.</i> , "High Affinity Human Antibodies by Phage Display," <i>Human Antibodies</i> vol. 8 no. 4: pp. 155-168 (1997).
	Banér <i>et al.</i> , "More Keys to Padlock Probes: Mechanisms for High-Throughput Nucleic Acid Analysis," <i>Current Opinion in Biotechnology</i> vol. 12:pp. 11-15 (2001).
	Barbas <i>et al.</i> , "Selection of Human Anti-Viral Antibodies," <i>Trends in Biotechnology</i> vol. 14: pp. 230-234 (1996).
	Bartosiewicz <i>et al.</i> , "Development of a Toxicological Gene Array and Quantitative Assessment of This Technology," <i>Archives of Biochemistry and Biophysics</i> vol 376 no. 1: pp. 66-73 (2000).
	Becker <i>et al.</i> , "High-Efficiency Transformation of Yeast by Electroporation," <i>Methods in Enzymology</i> vol. 194: pp. 182-187 (1991).
	Bennett <i>et al.</i> , "Environmental Tobacco Smoke, Genetic Susceptibility, and Risk of Lung Cancer in Never-Smoking Women," <i>Journal of the National Cancer Institute</i> vol. 91 no. 23: pp. 2009-2014 (1999).
	Bertram <i>et al.</i> , "Evidence for Genetic Linkage of Alzheimer's Disease to Chromosome 10q," <i>Science</i> vol. 290: pp. 2302-2303 (22 December 2000).
	Blum <i>et al.</i> , "Allelic Association of Human Dopamine D2 Receptor Gene in Alcoholism," <i>Journal of the American Medical Association</i> vol 263 no. 15: pp. 2055-2060 (April 18, 1990).
	Bolos <i>et al.</i> , "Population and Pedigree Studies Reveal a Lack of Association Between the Dopamine D2 Receptor Gene and Alcoholism," <i>Journal of the American Medical Association</i> vol. 264 no. 24: pp. 3156-3160 (December 26, 1990).
	Brenner <i>et al.</i> , "In Vitro Cloning of Complex Mixtures of DNA on Microbeads: Physical Separation of Differentially Expressed cDNAs," <i>Proc. Natl. Acad. Sci. USA</i> vol. 97 no.4: pp. 1665-1670 (2000).
	Buck, "Genes on Mouse Chromosomes 2 & 9 Determine Variation in Ethanol Consumption," <i>Mammalian Genome</i> vol. 9: pp. 936-941 (1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
AEOMICA_X_1SERIAL NO.
09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn et al.FILING DATE
May 23, 2001GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Burge <i>et al.</i> , "Prediction of Complete Gene Structures in Human Genomic DNA," <i>J. Mol. Biol.</i> vol. 268: pp. 78-94 (1997).
	Burset <i>et al.</i> , "Evaluation of Gene Structure Prediction Programs," <i>Genomics</i> vol 34: pp 353-367 (1996).
	<i>C. elegans</i> Sequencing Consortium, "Genome Sequence of the Nematode <i>C. elegans</i> : A Platform for Investigating Biology," <i>Science</i> vol 282: pp. 2012-2018 (11 December 1998).
	Chai <i>et al.</i> , "Structure and Organization of the <i>RBMY</i> Genes on the Human Y Chromosome: Transposition and Amplification of an Ancestral Autosomal <i>hnRNP</i> Gene," <i>Genomics</i> vol 49 no. 2: pp. 283-89 (1998).
	Chan <i>et al.</i> , "Triplex DNA: Fundamentals, Advances, and Potential Applications for Gene Therapy," <i>J. Mol. Med.</i> vol. 75: pp. 267-282 (1997).
	Chataway <i>et al.</i> , "The Genetics of Multiple Sclerosis: Principles, Background and Updated Results of the United Kingdom Systematic Genome Screen," <i>Brain</i> vol. 121: pp. 1869-1887 (1998).
	Chesi <i>et al.</i> , "Frequent Translocation t(4;14)(p16.3;q32.3) in Multiple Myeloma is Associated with Increased Expression and Activating Mutations of Fibroblast Growth Factor Receptor 3," <i>Nature Genetics</i> vol. 16: pp. 260-264 (1997).
	Chilcote <i>et al.</i> , "Lymphoblastic Leukemia with Lymphomatous Features Associated with Abnormalities of the Short Arm of Chromosome 9," <i>New England Journal of Medicine</i> vol. 313: pp. 286-291 (1985).
	Ciccarese <i>et al.</i> , "A New Locus for Autosomal Recessive Hypercholesterolemia Maps to Human Chromosome 15q25-q26," <i>Am. J. Hum. Genet.</i> vol. 66: pp. 453-460 (2000).
	Cloninger, C. Robert, "Neurogenetic Adaptive Mechanisms in Alcoholism," <i>Science</i> vol. 236: pp. 410-416 (1987).
	Co <i>et al.</i> , "Humanized Antibodies for Therapy," <i>Nature</i> vol. 351: pp. 501-502 (6 June 1991).
	Cormack <i>et al.</i> , "FACS-Optimized Mutants of the Green Fluorescent Protein (GFP)," <i>Gene</i> vol. 173: pp. 33-38 (1996).
	Culver <i>et al.</i> , "Correction of Chromosomal Point Mutations in Human Cells with Bifunctional Oligonucleotides," <i>Nature Biotechnology</i> vol. 17: pp. 989-993 (1999).
	Daw <i>et al.</i> , "The Number of Trait Loci in Late-Onset Alzheimer Disease," <i>Am. J. Hum. Genet.</i> vol. 66: pp. 196-204 (2000).
	de Kruif <i>et al.</i> , "New Perspectives on Recombinant Human Antibodies," <i>Immunology Today</i> vol. 17 no. 10: pp. 453-455 (1996).
	de Knijff <i>et al.</i> , "Genetic Heterogeneity of Apolipoprotein E and Its Influence on Plasma Lipid Lipoprotein Levels," <i>Human Mutations</i> vol. 4: pp. 178-194 (1994).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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09/864,761INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Penn et al.FILING DATE
May 23, 2001GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	De Risi <i>et al.</i> , "Exploring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale," <i>Science</i> vol. 278: pp. 680-686 (1997).
	Delgado <i>et al.</i> , "The Uses and Properties of PEG-Linked Proteins," <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> vol. 9 nos. 3 & 4: pp. 249-304 (1992).
	DeSantis <i>et al.</i> , "Chemical Modification of Enzymes for Enhanced Functionality," <i>Current Opinion in Biotechnology</i> vol. 10: pp. 324-330 (1999).
	Digilio <i>et al.</i> , "Recurrence Risk Figures for Isolated Tetralogy of Fallot After Screening for 22q11 Microdeletion," <i>J. Med. Genet.</i> vol. 34: pp. 188-190 (1997).
	Drees, Becky L., "Progress and Variation in Two-Hybrid and Three-Hybrid Technologies," <i>Current Opinion in Chemical Biology</i> vol. 3: pp. 64-70 (1999).
	Duffy, D., "Genetics of Asthma and Allergy: Molecular Genetics," <i>Review of Molecular Genetics of Asthma and Allergy</i> (http://www2.qimr.edu.au/davidD/asthma6.html).
	Dunham <i>et al.</i> , "The DNA Sequence of Human Chromosome 22," <i>Nature</i> vol. 402: pp. 489-95 (1999).
	Dyment <i>et al.</i> , "Genetics of Multiple Sclerosis," <i>Human Molecular Genetics</i> vol. 6 no. 10: pp. 1693-1698 (1997).
	Edelman <i>et al.</i> , "Obtaining a Functional Recombinant Anti-Rhesus (D) Antibody Using the Baculovirus-Insect Cell Expression System," <i>Immunology</i> vol. 91: pp. 13-19 (1997).
	Eldin <i>et al.</i> , "High-Level Secretion of Two Antibody Single Chain Fv Fragments by <i>Pichia Pastoris</i> ," <i>Journal of Immunological Methods</i> vol. 201: pp. 67-75 (1997).
	Ertekin-Taner <i>et al.</i> , "Linkage of Plasma A β 42 to a Quantitative Locus on Chromosome 10 in Late-Onset Alzheimer's Disease Pedigrees," <i>Science</i> vol. 290 no. 5500: pp. 2303-2304 (2000).
	Escude <i>et al.</i> , "Padlock Oligonucleotides for Duplex DNA Based on Sequence-Specific Triple Helix Formation," <i>Proc. Natl. Acad. Sci. USA</i> vol. 96: pp. 10603-10607 (1999).
	Fashena <i>et al.</i> , "The Continued Evolution of Two-Hybrid Screening Approaches in Yeast: How to Outwit Different Preys with Different Baits," <i>Gene</i> vol. 250: pp. 1-14 (2000).
	Fields <i>et al.</i> , "The Two-Hybrid System: an Assay for Protein-Protein Interactions," <i>Trends in Genetics</i> vol. 10 no. 8: pp. 286-292 (August 1994).
	Finn <i>et al.</i> , "Synthesis and Properties of DNA-PNA Chimeric Oligomers," <i>Nucleic Acids Research</i> vol. 24 no. 17: pp. 3357-3363 (1996).
	Fischer <i>et al.</i> , "Towards Molecular Farming in the Future: Transient Protein Expression in Plants," <i>Biotechnol. Appl. Biochem.</i> vol. 30: pp. 113-116 (1999).
	Fischer <i>et al.</i> , "Molecular Farming of Recombinant Antibodies in Plants," <i>Biol. Chem.</i> vol. 380: pp. 825-839 (July/August 1999).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT P nn et al.	
		FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Fischer <i>et al.</i> , "Antibody Production by Molecular Farming in Plants," <i>Journal of Biological Regulators and Homeostatic Agents</i> vol. 14 no. 2: pp. 83-92 (2000).
	Fox, Keith R., "Targeting DNA with Triplexes," <i>Current Medicinal Chemistry</i> vol. 7: pp. 17-37 (2000).
	Frenken <i>et al.</i> , "Recent Advances in the Large-Scale Production of Antibody Fragments Using Lower Eukaryotic Microorganisms," <i>Res. Immunol.</i> vol. 149: pp. 589-599 (1998).
	Freyre <i>et al.</i> , "Very High Expression of an Anti-Carcinoembryonic Antigen Single Chain Fv Antibody Fragment in the Yeast <i>Pichia Pastoris</i> ," <i>Journal of Biotechnology</i> vol. 76: pp. 157-163 (2000).
	Fuentes <i>et al.</i> , "A New Human Gene from the Down Syndrome Critical Region Encodes a Proline-rich Protein Highly Expressed in Fetal Brain and Heart," <i>Human Molecular Genetics</i> vol. 4 no. 10: pp. 1935-1944 (1995).
	Fukushima <i>et al.</i> , "DiGeorge Syndrome with del (4) (q21. 3q25): Possibility of the Fourth Chromosome Region Responsible for DiGeorge Syndrome," <i>Am. J. Hum. Genet.</i> vol. 51 (suppl): p. A80 (1992).
	Gamper <i>et al.</i> , "The DNA Strand of Chimeric RNA/DNA Oligonucleotides Can Direct Gene Repair/Conversion Activity in Mammalian and Plant Cell-Free Extracts," <i>Nucleic Acids Research</i> vol. 28 no. 21: pp. 4332-4339 (2000).
	Gavilondo <i>et al.</i> , "Antibody Engineering at the Millennium," <i>Biotechniques</i> vol. 29: pp. 128-138 (2000).
	Geiss <i>et al.</i> , "Large-scale Monitoring of Host Cell Gene Expression During HIV-1 Infection Using cDNA Microarrays," <i>Virology</i> vol. 266: pp. 8-16 (2000).
	Gerhold <i>et al.</i> , "DNA Chips: Promising Toys Have Become Powerful Tools," <i>Trends in Biochemical Science</i> vol. 24: pp. 168-173 (1999).
	Geysen <i>et al.</i> , "Use of Peptide Synthesis to Probe Viral Antigens for Epitopes to a Resolution of a Single Amino Acid," <i>Proc. Natl. Acad. Sci. USA</i> vol. 81: pp. 3998-4002 (July 1984).
	Giddings <i>et al.</i> , "Transgenic Plants as Factories for Biopharmaceuticals," <i>Nature Biotechnology</i> vol. 18: pp. 1151-1155 (2000).
	Gilbert <i>et al.</i> , "The Nucleotide Sequence of the <i>lac</i> Operator," <i>Proc. Natl. Acad. Sci. USA</i> vol. 70 no. 12 part 1: pp. 3581-3584 (December 1973).
	Gish <i>et al.</i> , "Identification of Protein coding Regions by Database Similarity Search," <i>Nature Genetics</i> vol. 3 no. 3: pp. 266-272 (1993).
	Goffeau <i>et al.</i> , "Life with 6000 Genes," <i>Science</i> vol. 274: pp. 563-567 (25 October 1996).
	Gonnet <i>et al.</i> , "Exhaustive Matching of the Entire Protein Sequence Database," <i>Science</i> vol. 256: pp. 1443-1445 (5 June 1992).
	Gottlieb <i>et al.</i> , "Characterization of 10p Deletions Suggests Two Nonoverlapping Regions Contribute to the DiGeorge Syndrome Phenotype," <i>Am. J. Hum. Genet.</i> vol. 62: pp. 495-498 (1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
	APPLICANT Penn t al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Greenberg <i>et al.</i> , "Cytogenetic Findings in a Prospective Series of Patients with DiGeorge Anomaly," <i>Am. J. Hum. Genet.</i> vol. 43: pp. 605-611 (1988).
	Griffiths <i>et al.</i> , "Strategies for Selection of Antibodies by Phage Display," <i>Current Opinion in Biotechnology</i> vol. 9: pp. 102-108 (1998).
	Haines <i>et al.</i> , "Linkage of the MHC to Familial Multiple Sclerosis Suggests Genetic Heterogeneity," <i>Human Molecular Genetics</i> vol. 7 no. 8: pp. 1229-1234 (1998).
	Hasstedt <i>et al.</i> , "Hypertension and Sodium-Lithium countertransport in Utah Pedigrees: Evidence for Major-Locus Inheritance," <i>Am. J. Hum. Genet.</i> vol. 43: pp. 14-22 (1988).
	Hattori <i>et al.</i> , "The DNA Sequence of Human Chromosome 21," <i>Nature</i> vol. 405: pp. 311-319 (2000).
	Headings <i>et al.</i> , "Familial Sarcoidosis with Multiple Occurrences in Eleven Families: A Possible Mechanism of Inheritance," <i>Annals of the New York Academy of Sciences</i> vol. 278: pp. 377-385 (1976).
	Hedrick <i>et al.</i> , "Isolation of cDNA clones encoding T cell-specific membrane-associated proteins," <i>Nature</i> vol. 308: pp. 149-153 (1984).
	Hedrick <i>et al.</i> , "Sequence Relationships Between Putative T-Cell Receptor Polypeptides and Immunoglobulins," <i>Nature</i> vol. 308: pp.153-158 (1984).
	Heid <i>et al.</i> , "Real Time Quantitative PCR," <i>Genome Research</i> vol. 6 no. 10: pp. 986-994 (1996).
	Heikal <i>et al.</i> , "Molecular Spectroscopy and Dynamics of Intrinsically Fluorescent Proteins: Coral red (dsRed) and Yellow (Citrine)," <i>Proc. Natl. Acad. Sci. USA</i> vol. 97: pp. 11996-12001 (2000).
	Heim <i>et al.</i> , "Engineering Green Fluorescent Protein for Improved Brightness, Longer Wavelengths and Fluorescence Resonance Energy Transfer," <i>Current Biology</i> vol. 6: pp. 178-182 (1996).
	Heizmann, Clauss W., "Ca ²⁺ Binding S100 Proteins in the Central Nervous System*," <i>Neurochemical Research</i> vol. 24 no. 9: pp. 1097-1100 (1997).
	Heller <i>et al.</i> , "Discovery and Analysis of Inflammatory Disease-related Genes Using cDNA Microarrays," <i>Proc. Natl. Acad. Sci. USA</i> vol. 94: pp. 2150-2155 (1997).
	Henegariu <i>et al.</i> , "Custom Fluorescent-Nucleotide Synthesis as an Alternative Method for Nucleic Acid Labeling," <i>Nature Biotechnology</i> vol. 18: pp. 345-348 (March 2000).
	Henikoff <i>et al.</i> , "Amino Acid Substitution Matrices from Protein Blocks," <i>Proc. Natl. Acad. Sci. USA</i> vol. 89: pp. 10915-10919 (November 1992).
	Ho <i>et al.</i> , "Linkage of a Familial Platelet Disorder with a Propensity to Develop Myeloid Malignancies to Human Chromosome 21q22.1-22.2," <i>Blood</i> vol. 87: pp. 5218-5224 (1996).
	Holland <i>et al.</i> , "Detection of Specific Polymerase Chain reaction Product by Utilizing the 5' → 3' Exonuclease Activity of <i>Thermus Aquaticus</i> DNA Polymerase," <i>Proc. Natl. Acad. Sci. USA</i> vol. 88: pp. 7276-7280 (1991).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
	APPLICANT Penn et al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Holmes <i>et al.</i> , "Comment," <i>Birth Defects Original Article Series vol. X no. 4</i> : pp. 228-230 (1974).
	Hong <i>et al.</i> , "Profiling the Downstream Genes of Tumor Suppressor <i>PTEN</i> in Lung Cancer Cells by Complementary DNA Microarray," <i>Am. J. Respir. Cell Molecular Biology vol. 23</i> : pp. 355-363 (2000).
	Hoogenboom, "Designing and Optimizing Library Selection Strategies for Generating High-Affinity Antibodies," <i>Trends in Biotechnology vol. 15</i> : pp. 62-70 (February 1997).
	Hoogenboom <i>et al.</i> , "Antibody Phage Display Technology and its Applications," <i>Immunotechnology, vol. 4</i> : pp. 1-20 (1998).
	Horne <i>et al.</i> , "Possible Protective Effect Against Chronic Obstructive Airways Disease by the GC 2 Allele," <i>Hum. Hered. vol. 40</i> : pp. 173-176 (1990).
	Horwitz <i>et al.</i> , "Genetic Heterogeneity in Familial Acute Myelogenous Leukemia: Evidence for a Second Locus at Chromosome 16q21-23.2," <i>Am. J. Hum. Genet. vol. 61</i> : pp. 873-881 (1997).
	Hsu <i>et al.</i> , "Coexpression of Molecular Chaperone BiP Improves Immunoglobulin Solubility and IgG Secretion from <i>Trichoplusia ni</i> Insect Cells," <i>Biotechnol. Prog. vol. 13</i> : pp. 96-104 (1997).
	Hudson, "Recombinant Antibody Fragments," <i>Current Opinion in Biotechnology vol. 9</i> : pp. 395-402 (1998).
	Huss <i>et al.</i> , "Genetics of Asthma and Allergies," <i>Nursing Clinics of North America vol. 35 no. 3</i> : pp. 695-705 (2000).
	International Human Genome Sequencing Consortium, "Initial Sequencing and Analysis of the Human Genome," <i>Nature vol. 409</i> : pp. 860-921 (15 February 2001).
	Ishihara <i>et al.</i> , "Genetic Polymorphism in Intron 6 of the LMP7 Gene in Japanese and its Association with Sarcoidosis," <i>Tissue Antigens vol. 50</i> : pp. 650-653 (1997).
	Jelsma <i>et al.</i> , "Increase Labeling of DNA Probes for <i>In Situ</i> Hybridization with the Universal Linkage System (ULS)," <i>Journal of NIH Research vol. 5</i> : p. 82 (1994).
	Johnson <i>et al.</i> , "Chromosome Abnormalities in Congenital Heart Disease," <i>Am. J. Med. Genet. vol. 70</i> : pp. 292-298 (1997).
	Joshi <i>et al.</i> , "A Novel Ferritin Heavy Chain Messenger Ribonucleic Acid in the Human Brain," <i>J. Neurol. Sci. vol. 134(Suppl)</i> : pp. 52-56 (1995).
	Juo <i>et al.</i> , "A Common Genetic Mecanism Determines Plasma Apolipoprotein B Levels and Dense LDL Subfraction Distribution in Familial Combined Hyperlipidemia," <i>Am. J. Hum. Genet. vol. 63</i> : pp. 586-594 (1998).
	Kalra <i>et al.</i> , "Indian Childhood Cirrhosis- A Heritable Disease," <i>Hum. Hered. vol. 32</i> : pp. 170-175 (1982).
	Kaminski <i>et al.</i> , "Global Analysis of Gene Expression in Pulmonary Fibrosis Reveals Distinct Programs Regulating Lung Inflammation and Fibrosis," <i>Proc. Natl. Acad. Sci. USA vol. 97</i> : pp. 1778-1783 (2000).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
	APPLICANT Penn t al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Khoury <i>et al.</i> , "Familial Aggregation in Chronic Obstructive Pulmonary Disease: Use of the Loglinear Model to Analyze Intermediate Environmental and Genetic Risk Factors," <i>Genetic Epidemiology</i> vol. 2: pp. 155-166 (1985).
	Klitz <i>et al.</i> , "Localization of Predisposition to Hodgkin Disease in the HLA Class II Region," <i>Am. J. Hum. Genet.</i> vol. 54: pp. 497-505 (1994).
	Kochetkova <i>et al.</i> , "Triplex-Forming Oligonucleotides and Their Use in the Analysis of Gene Transcription," <i>Methods in Molecular Biology</i> vol. 130: pp. 189-201 (2000).
	Kole <i>et al.</i> , "Protein-Tyrosine Phosphatase Inhibition by a Peptide Containing the Phosphotyrosyl Mimetic, L-O-Malonyltyrosine," <i>Biochemical & Biophysical Research Communications</i> vol. 209 no. 3: pp. 817-821 (1995).
	Kostrikis <i>et al.</i> , "Spectral Genotyping of Human Alleles," <i>Science</i> vol. 279: pp. 1228-1229 (1998).
	Kowalczyk <i>et al.</i> , "A Possible Subgroup of ALL with 9p-," <i>Cancer Genetics & Cytogenetics</i> vol. 9: pp. 383-385 (1981).
	Kricka <i>et al.</i> , "Comparison of 5-Hydroxy-2, 3-Dihydrophthalazine-1, 4-Dione and Luminol as Co-Substrates for Detection of Horseradish Peroxidase in Enhanced Chemiluminescent Reactions," <i>Journal of Immunoassay</i> vol. 17: pp. 67-83 (1996).
	Kuimelis <i>et al.</i> , "Structural Analogues of TaqMan Probes for Real-Time Quantitative PCR," <i>Nucleic Acids Symposium Series</i> no. 37: pp. 255-256 (1997).
	Lander <i>et al.</i> , "The Chipping Forecast," <i>Supplement to Nature Genetics</i> vol. 21 no. 1: pp. 1-60 (January 1999).
	Larsen <i>et al.</i> , "Antisense Properties of Peptide Nucleic Acid," <i>Biochimica et Biophysical Acta</i> vol. 1489: pp. 159-166 (1999).
	Lashkari <i>et al.</i> , "Yeast Microarrays for Genome Wide Parallel Genetic and Gene Expression Analysis," <i>Proc. Natl. Acad. Sci. USA</i> vol. 94: pp. 13057-13062 (1997).
	Lauffer <i>et al.</i> , "MS-325: Albumin-Targeted Contrast Agent for MR Angiography," <i>Radiology</i> vol. 207 no. 2: pp. 529-538 (1998).
	Lefkowitz <i>et al.</i> , "Hepatic Copper Overload and Features of Indian Childhood Cirrhosis in an American Sibship," <i>New Eng. J. Med.</i> vol. 307: pp. 271-277 (1982).
	Lennon <i>et al.</i> , "The I.M.A.G.E. Consortium: An Integrated Molecular Analysis of Genomes and Their Expression," <i>Genomics</i> vol. 33 no. 1: pp. 151-152 (April 1996).
	Lerner, "Tapping the immunological repertoire to produce antibodies of predetermined specificity," <i>Nature</i> vol. 299: pp. 592-596 (1982).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

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STATEMENT BY APPLICANTAPPLICANT
P nn et al.FILING DATE
May 23, 2001GROUP
1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Li et al., "Production of Functional Antibodies Generated in a Nonlytic Insect Cell Expression System," <i>Protein Expression and Purification</i> vol. 21: pp. 121-128 (2001).
	Li et al., "Deletions of the Aequorea Victoria Green Fluorescent Protein Define the Minimal Domain Required for Fluorescence," <i>Journal of Biological Chemistry</i> vol. 272: pp. 28545-28549 (1997).
	Lin et al., "Sequence and Analysis of Chromosome 2 of the Plant <i>Arabidopsis Thaliana</i> ," <i>Nature</i> vol. 402: pp. 761-768 (1999).
	Liu et al., "Progress Toward the Evolution of an Organism with an Expanded Genetic Code," <i>Proc. Natl. Acad. Sci. USA</i> vol. 96: pp. 4780-4785 (1999).
	Livesey et al., "Microarray Analysis of the Transcriptional Network Controlled by the Photoreceptor Homeobox Gene Crx," <i>Current Biology</i> vol. 10: pp. 301-310 (2000).
	Lizardi et al., "Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification," <i>Nature Genetics</i> vol. 19: pp. 225-232 (1998).
	Lopez et al., "YIDB: the Yeast Intron Data Base," <i>Nucleic Acids Research</i> vol. 28: pp. 85-86 (2000).
	Lopez et al., "Genomic-Scale Quantitative Analysis of Yeast pre-mRNA Splicing: Implications for Splice Site Recognition," <i>RNA</i> vol. 5: pp. 1135-1137 (1999).
	Luban et al., "The Yeast Two-Hybrid System for Studying Protein-Protein Interactions," <i>Current Opinions in Biotechnology</i> vol. 6: pp. 59-64 (1995).
	Luisetti et al., "The Search for Susceptibility Genes of COPD," <i>Mondaldi Arch. Chest. Dis.</i> vol. 50 no. 1: pp. 28-32 (1995).
	Lundqvist et al., "Influence of Different Luminols on the Characteristics of the Chemiluminescence Reaction in Human Neutrophils," <i>J. Biolumin. Chemilumin.</i> vol. 10: pp. 353-359 (1995).
	Ma et al., "Plant Antibodies for Immunotherapy," <i>Plant Physiology</i> vol. 109: pp. 341-346 (1995).
	Marra et al., "An Encyclopedia of Mouse Genes," <i>Nature Genetics</i> vol. 21: pp. 191-194 (1999).
	Marras et al., "Multiplex Detection of Single-Nucleotide Variations Using Molecular Beacons," <i>Genetic Analysis: Biomolecular Engineering</i> vol. 14: pp. 151-156 (1999).
	Mendelsohn et al., "Applications of Interaction Traps/Two-Hybrid Systems to Biotechnology Research," <i>Current Opinion in Biotechnology</i> vol. 5: pp. 482-486 (1994).
	Merchant et al., "Recent Advancements in Surface-Enhanced Laser Desorption/Ionization-Time of Flight-Mass Spectrometry," <i>Electrophoresis</i> vol. 21: pp. 1164-1177 (2000).
	Merk et al., "Cell-Free Expression of Two Single-Chain Monoclonal Antibodies Against Lysozyme: Effect of Domain Arrangement on the Expression," <i>J. Biochem.</i> vol. 125 no. 2: pp. 328-33 (1999).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
	APPLICANT Penn t al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Millward <i>et al.</i> , "Regulation of Protein Kinase Cascades by Protein Phosphatase 2A," <i>Trends in Biochemical Science</i> vol. 24: pp. 186-191 (1999).
	Misra <i>et al.</i> , "Polyamide Nucleic Acid-DNA Chimera Lacking the Phosphate Backbone Arc Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases," <i>Biochemistry</i> vol. 37: pp. 1917-1925 (1998).
	Miyawaki <i>et al.</i> , "Fluorescent Indicators for CA2+ Based on Green Fluorescent Proteins and Calmodulin," <i>Nature</i> vol. 388: pp. 882-887 (1997).
	Morrison <i>et al.</i> , "Chimeric Human Antibody Molecules: Mouse Antigen-Binding Domains with Human constant Region Domains," <i>Proc. Natl. Acad. Sci. USA</i> vol. 81: pp. 6851-6855 (1984).
	Murphy <i>et al.</i> , "Letter to the Editor," <i>New England Journal of Medicine</i> vol. 313: p. 1611 (1985).
	Myers <i>et al.</i> , "Susceptibility Locus for Alzheimer's Disease on Chromosome 10," <i>Science</i> vol. 290: pp. 2304-2305 (2000).
	Nesbit <i>et al.</i> , "Production of a Functional Monoclonal Antibody Recognizing Human Colorectal Carcinoma Cells from a Baculovirus Expression System," <i>Journal of Immunological Methods</i> vol. 151: pp. 201-208 (1992).
	Nielsen, "Applications of Peptide Nucleic Acids," <i>Current Opinion in Biotechnology</i> vol. 10: pp. 71-75 (1999).
	Nielsen, "Peptide Nucleic Acids as Therapeutic Agents," <i>Current Opinion in Structural Biology</i> vol. 9: pp. 353-357 (1999).
	Nielsen <i>et al.</i> , "Peptide Nucleic Acids: On the Road to New Gene Therapeutic Drugs," <i>Pharmacology & Toxicology</i> vol. 86: pp. 3-7 (2000).
	Nilsson <i>et al.</i> , "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <i>Science</i> vol. 265 no. 5181: pp. 2085-2088 (1994).
	Nowack <i>et al.</i> , "Genetic Aspects of Sarcoidosis: Class II Histocompatibility Antigens and a Family Study," <i>Archives of Internal Medicine</i> vol. 147: pp. 481-483 (1987).
	Nuwaysir <i>et al.</i> , "Microarrays and Toxicology: the Advent of Toxicogenomics," <i>Molecular Carcinogenesis</i> vol. 24: pp. 153-159 (1999).
	Ormö <i>et al.</i> , "Crystal Structure of the <i>Aequorea Victoria</i> Green Fluorescent Protein," <i>Science</i> vol. 273: pp. 1392-1395 (1996).
	Pajukanta <i>et al.</i> , "Linkage of Familial Combined Hyperlipidaemia to Chromosome 1q21-q23," <i>Nature Genetics</i> vol. 18: pp. 369-373 (April 1998).
	Palm <i>et al.</i> , "Spectral Variants of Green Fluorescent Protein," in <u>Green Fluorescent Proteins</u> , Conn (ed.), <i>Methods in Enzymology</i> vol. 302: pp.378-394 (1999).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
	APPLICANT Penn et al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Pennell <i>et al.</i> , "In Vitro Production of Recombinant Antibody Fragments in <i>Picia Pastoris</i> ," <i>Research in Immunology</i> vol. 149 no. 6: pp. 599-603 (1998).
	Pennisi, "Academic Sequencers Challenge Celera in a Sprint to the Finish," <i>Science</i> vol. 283: pp. 1822-1823 (1999).
	Perou <i>et al.</i> , "Distinctive Gene Expression Patterns in Human Mammary Epithelial Cells and Breast Cancers," <i>Proc. Natl. Acad. Sci. USA</i> vol. 96: pp. 9212-9217 (1999).
	Perucho <i>et al.</i> , "Human-Tumor-Derived Cell Lines Contain Common and Different Transforming Genes," <i>Cell</i> vol. 27: pp. 467-76 (December 1981).
	Perusse <i>et al.</i> , "Evidence That a Single Gene with Gender- and Age-Dependent Effects Influences Systolic Blood Pressure Determination in a Population-Based Sample," <i>Am. J. Hum. Genet.</i> vol. 49: pp. 94-105 (1991).
	Pollock <i>et al.</i> , "Transgenic Milk as a Method for the Production of Recombinant Antibodies," <i>Journal of Immunological Methods</i> vol. 231: pp. 147-157 (1999).
	Posnett <i>et al.</i> , "A Novel Method for Producing Anti-Peptide Antibodies," <i>Journal of Biological Chemistry</i> vol. 263: pp. 1719-1725 (1988).
	Praseuth <i>et al.</i> , "Triple Helix Formation and the Antigene Strategy for Sequence-Specific Control of Gene Expression," <i>Biochimica et Biophysica Acta</i> 1489: pp. 181-206 (1999).
	Prochazka <i>et al.</i> , "Association of Primary Sclerosing Cholangitis with HLA-DRw52a," <i>New England Journal of Medicine</i> vol. 322: pp. 1842-1844 (1990).
	Rader <i>et al.</i> , "Phase Display of Combinatorial Antibody Libraries," <i>Current Opinion in Biotechnology</i> vol. 8: pp. 503-508 (1997).
	Ray <i>et al.</i> , "Peptide Nucleic Acid (PNA): Its Medical and Biotechnical Applications and Promise for the Future," <i>The FASEB Journal</i> vol. 14: pp. 1041-1060 (June 2000).
	Reeves, Roger H., "Recounting a Genetic Story: The DNA Sequence of Human Chromosome 21, Now Published, Provides Indication that the Total Number of Human Genes Has Been Overestimated, and is a Valuable Resource for Research in Down Syndrome," <i>Nature</i> vol. 405: pp. 283-284 (2000).
	Retig <i>et al.</i> , "Kaposi's Sarcoma-Associated Herpesvirus Infection of Bone Marrow Dendritic Cells from Multiple Myeloma Patients," <i>Science</i> vol. 276: pp. 1851-1854 (1997).
	Riechmann <i>et al.</i> , "Reshaping Human Antibodies for Therapy," <i>Nature</i> vol. 332: pp. 323-327 (24 March 1988).
	Rotter <i>et al.</i> , "Multilocus Genetic Determinants of LDL Particle Size in Coronary Artery Disease Families," <i>Am. J. Hum. Genet.</i> vol. 58: pp. 585-594 (1996).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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	APPLICANT Penn et al.	
	FILING DATE May 23, 2001	GROUP 1645

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Russell, D.A., "Feasibility of Antibody Production in Plants for Human Therapeutic Use," <i>Current Topics in Microbiology & Immunology</i> vol. 240: pp. 119-38 (1999).
	Ryabova et al., "Functional Antibody Production Using Cell-Free Translation: Effects of Protein Disulfid Isomerase and Chaperones," <i>Nature Biotechnology</i> vol. 15: pp. 79-84 (1997).
	Rybicki et al., "Genetics of Sarcoidosis," <i>Clinics in Chest Medicine</i> vol. 18: pp. 707-717 (1997).
	Sander et al., "Genome Search for Susceptibility Loci of Common Idiopathic Generalised Epilepsies," <i>Human Molecular Genetics</i> vol. 9: pp. 1465-1472 (2000).
	Sandford et al., "Genetic Risk Factors for Chronic Obstructive Pulmonary Disease," <i>European Respiratory Journal</i> vol. 10: pp. 1380-1391 (1997).
	Sanger et al., "Use of DNA Polymerase I Primed by a Synthetic Oligonucleotide to Determine a Nucleotide Sequence in Phage f1 DNA," <i>Proc. Natl. Acad. Sci. USA</i> vol. 70: pp. 1209-1213 (1973).
	Scherf et al., "A Gene Expression Database for the Molecular Pharmacology of Cancer," <i>Nature Genetics</i> vol. 24 no. 3: pp. 236-244 (2000).
	Schiestl et al., "High Efficiency Transformation of Intact Yeast Cells Using Single Stranded Nucleic Acids as a Carrier," <i>Current Genetics</i> vol. 16 nos. 5 & 6: pp. 339-346 (1989).
	Schoner et al., "Translation of a Synthetic Two-Cistron mRNA in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> vol. 83: pp. 8506-8510 (1986).
	Schott et al., "Cardiac Conduction Defects Associate with Mutation in <i>SCN5A</i> ," <i>Nature Genetics</i> vol. 23: pp. 20-21 (1999).
	Schweitzer et al., "Combining Nucleic Acid Amplification and Detection," <i>Current Opinion in Biotechnology</i> vol. 12: pp. 21-27 (2001).
	Scott et al., "Cellular Camouflage: Fooling the Immune System with Polymers," <i>Current Pharmaceutical Design</i> vol. 4: pp. 423-438 (1998).
	Service, "Picking Up the Pace of Sequencing," <i>Science</i> vol. 280: p. 995 (1998).
	Sgroi et al., "In vivo Gene Expression Profile Analysis of Human Breast Cancer Progression," <i>Cancer Research</i> vol. 59: pp. 5656-5561 (1999).
	Sharon et al., "Expression of a <i>VHCK</i> Chimaeric Protein in Mouse Myeloma Cells," <i>Nature</i> vol. 309: pp. 364-367 (1984).
	Shaw et al., "A Genome-Wide Search for Schizophrenia Susceptibility Genes," <i>Am. J. Med. Genet.</i> vol. 81: pp. 364-376 (1998).
	Shelton et al., "Microarray Analysis of Replicative Senescence," <i>Current Biology</i> vol. 9: pp. 939-945 (1999).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Shinnick <i>et al.</i> , "Synthetic Peptide Immunogens as Vaccines," <i>Annual Review of Microbiology</i> vol. 37: pp. 425-446 (1983).
	Shugart <i>et al.</i> , "Combined Segregation and Linkage Analysis of 59 Hodgkin's Disease Families Indicates the Role of HLA Determinants," <i>European Journal of Human Genetics</i> vol. 8: pp. 460-463 (2000).
	Shusta <i>et al.</i> , "Increasing the Secretory Capacity of <i>Saccharomyces Cerevisiae</i> for Production of Single-Chain Antibody Fragments," <i>Nature Biotechnology</i> vol. 16: pp. 773-777 (August 1998).
	Sidhu, Sachdev S., "Phage Display in Pharmaceutical Biotechnology," <i>Current Opinion in Biotechnology</i> vol. 11: pp. 610-616 (2000).
	Sjogren <i>et al.</i> , "Morbus Alzheimer and Morbus Pick," <i>Acta Psychiat. Neurol. Scand.</i> vol. 82 (suppl): pp. 1-152 (1952).
	Slutsky, Arthur S. M.D., "Genetics of Asthma: From chicken Soup to Napoleon to Toronto," <i>Journal of Clinical Pharmacology</i> vol. 39: pp. 246-251 (March 1999).
	Smith <i>et al.</i> , "Association Between Polymorphism in Gene for Microsomal Epoxide Hydrolase and Susceptibility to Emphysema," <i>The Lancet</i> vol. 350: pp. 630-33 (1997).
	Sokol <i>et al.</i> , "Real Time Detection of DNA-RNA Hybridization in Living Cells," <i>Proc. Natl. Acad. Sci. USA</i> vol. 95: pp. 11538-11543 (1998).
	Solovyev <i>et al.</i> , "Predicting Internal Exons by Oligonucleotide Composition and Discriminant Analysis of Spliceable Open Reading Frames," <i>Nucleic Acids Research</i> vol. 22: pp. 5756-5763 (1994).
	Solovyev <i>et al.</i> , "The Gene-Finder computer Tools for Analysis of Human and Model Organisms Genome Sequences," <i>Ismb</i> vol. 5: pp. 294-302 (1997).
	Spingola <i>et al.</i> , "Genome-Wide Bioinformatic and Molecular Analysis of Introns in <i>Saccharomyces Cerevisiae</i> ," <i>RNA</i> vol. 5 no. 2: pp. 221-234 (1999).
	Strausberg <i>et al.</i> , "New Opportunities for Uncovering the Molecular Basis of Cancer," <i>Nature Genetics</i> vol. 15: p.p. 415-416 (1997).
	Sutcliffe <i>et al.</i> , "Antibodies that react with predetermined sites on proteins," <i>Science</i> vol. 219: pp. 660-666 (1983).
	Takahashi <i>et al.</i> , "Production of Humanized Fab Fragment Against Human High Affinity IgE Receptor in <i>Pichia Pastoris</i> ," <i>Biosci. Biotechnol. Biochem.</i> vol. 64 no. 10: pp. 2138-2144 (2000).
	Takeda <i>et al.</i> , "Construction of Chimaeric Processed Immunoglobulin Genes Containing Mouse Variable and Human constant Region Sequences," <i>Nature</i> vol. 314: pp. 452-454 (April 1985).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Taki <i>et al.</i> , "AF5q31, a Newly Identified AF4-Related Gene, is Fused to MLL in Infant Acute Lymphoblastic Leukemia with ins(5;11)(q31;q13q23)," <i>Proc. Natl. Acad. Sci. USA</i> vol. 96: pp. 14535-14540 (1999).
	Tam <i>et al.</i> , "Synthetic Peptide Vaccine Design: Synthesis and Properties of a High-Density Multiple Antigenic Peptide System," <i>Proc. Natl. Acad. Sci. USA</i> vol. 85: pp. 5409-5413 (1988).
	Tatusova <i>et al.</i> , "Blast 2 sequences - a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiology Letters</i> vol. 174: pp. 247-250 (1999).
	Thomas <i>et al.</i> , "Dioxin Induced Changes in Global Expression as Measured Using EST Frequency and CDNA Microarrays: Identification of a Second Gene Battery," <i>Toxicologist</i> vol. 54: pp. 68-69 (2000).
	Thorpe <i>et al.</i> , "Bioluminescence and Chemiluminescence," <i>Methods in Enzymology</i> vol. 133: pp. 331-353 (1986).
	Tiihonen <i>et al.</i> , "Association Between the Functional Variant of the Catechol-O-Methyltransferase (COMT) Gene and Type 1 Alcoholism," <i>Molecular Psychiatry</i> vol. 4: pp. 286-289 (1999).
	Topcu <i>et al.</i> , "The Yeast Two-Hybrid System and Its Pharmaceutical Significance," <i>Pharmaceutical Research</i> vol. 17 no. 9: pp. 1049-1055 (2000).
	Townley <i>et al.</i> , "Segregation Analysis of Bronchial Response to Methacholine Inhalation Challenge in Families with and without Asthma," <i>Journal of Allergy Clinical Immunology</i> vol. 77: pp. 101-107 (1986).
	Tyagi <i>et al.</i> , "Molecular Beacons: Probes that Fluoresce upon Hybridization," <i>Nature Biotechnology</i> vol. 14: pp. 303-308 (1996).
	Uberbacher <i>et al.</i> , "Locating Protein-Coding Regions in Human DNA Sequences by a Multiple Sensor-Neural Network Approach," <i>Proc. Natl. Acad. Sci. USA</i> vol. 88: pp. 11261-11265 (1991).
	Uberbacher <i>et al.</i> , "Discovering and Understanding Genes in Human DNA Sequence Using GRAIL," <i>Methods in Enzymology</i> vol. 266: pp. 259-281 (1996).
	Van Belkum <i>et al.</i> , "Non-Isotopic Labeling of DNA by Newly Developed Hapten-Containing Platinum Compounds," <i>BioTechniques</i> vol. 16 no. 1: pp. 148-153 (1994).
	Verma <i>et al.</i> , "Antibody Engineering: Comparison of Bacterial, Yeast, Insect and Mammalian Expression Systems," <i>Journal of Immunological Methods</i> vol. 216: pp. 165-81 (1998).
	Voehringer <i>et al.</i> , "Gene Microarray Identification of Redox and Mitochondrial Elements That Control Resistance or Sensitivity to Apoptosis," <i>Proc. Natl. Acad. Sci. USA</i> vol. 97: pp. 2680-2685 (2000).
	Wang <i>et al.</i> , "Identification of Genes Differently Over-expressed in Lung Squamous Cell Carcinoma Using Combination of cDNA Subtraction and Microarray Analysis," <i>Oncogene</i> vol. 19: pp. 1519-1528 (2000).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. AEOMICA_X_1	SERIAL NO. 09/864,761
		APPLICANT Penn tal.	
		FILING DATE May 23, 2001	GROUP 1645

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Wei et al., "The NOTCH4 Locus is Associated with Susceptibility to Schizophrenia," <i>Nature Genetics</i> vol. 25: pp. 376-377 (2000).
	Whitney et al., "Analysis of Gene Expression in Multiple Sclerosis Lesions Using cDNA Microarrays," <i>Annals of Neurology</i> vol. 46 no.3: pp. 425-428 (1999).
	Williams et al., "A Two-Stage Genome Scan for Schizophrenia Susceptibility Genes in 196 Affected Sibling Pairs," <i>Human Molecular Genetics</i> vol. 8 no. 9: pp. 1729-1739 (1999).
	Williamson, Alan R., "The Merck Gene Index Project," <i>Drug Discovery Today</i> vol. 4 no. 3: pp. 115-122 (1999).
	Winter et al., "Making Antibodies by Phage Display Technology," <i>Annual Review of Immunology</i> : pp. 433-455 (1994).
	Xu et al., "Recognizing Exons in Genomic Sequence Using Grail II," <i>Genetic Engineering</i> vol. 16: pp. 241-53 (1994).
	Xu et al., "An Extreme-Sib-Pair Genome Scan for Genes Regulating blood Pressure," <i>Am. J. Hum. Genet.</i> vol. 64: pp. 1694-1701 (1999).
	Zara et al., "Mapping of Genes Predisposing to Idiopathic Generalized Epilepsy," <i>Human Molecular Genetics</i> vol. 4 no. 7: pp. 1201-1207 (1995).
	Zoger et al., "Deletion of 13q14 Remains an Independent Adverse Prognostic Variable in Multiple Myeloma Despite Its Frequent Detection by Interphase Fluorescence in Situ Hybridization," <i>Blood</i> vol. 95 no. 6: pp. 1925-1930 (2000).
	Zuliani et al., "Characterization of a New Form of Inherited Hypercholesterolemia," <i>Arterioscler. Thromb. Vasc. Biol.</i> vol. 19: pp. 802-809 (1999).
	Zweiger, "Knowledge Discovery in Gene-Expression-Microarray Data: Mining the Information Output of the Genome," <i>Trends in Biotechnology</i> vol. 17: pp. 429-436 (1999)..

EXAMINER

DATE CONSIDERED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Penn et al.
Application No.: 09/864,761 Confirmation No.: 6802
Filed: : May 23, 2001
For: : HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC
ACID PROBES USEFUL FOR GENE EXPRESSION
ANALYSIS
Group Art Unit : 1634
Examiner : Jeanine Anne Goldberg

Hon. Commissioner
for Patents
c/o P.O. Box 2327
Arlington, VA 22202

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98,
applicants hereby make the following documents of record in
the above identified application: *

U.S. Patents

6,355,423	03/2001	Rothberg et al.
6,329,140	12/2001	Lockhart et al.
6,303,301	10/2001	Mack
6,251,590	06/2001	Schweighoffer et al.
5,955,272	09/1999	Lawrence et al.
2002/0029113	03/2002	Wang et al.

* Applicants reserve the right to challenge the status of any
of the cited documents as prior art.

Foreign Patents

WO 01/81632	11/2001	WIPO
EP 0 791 660	08/1997	EP

Copies of the aforementioned documents, which are listed on the accompanying Form PTO-1449 (submitted in duplicate), are enclosed herewith.


It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent that may issue on this application. Applicants request that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

An early and favorable action is respectfully requested.

Respectfully submitted,

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